

KODAIKANAL OBSERVATORY

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VOLUME IX

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79	9	27	15	520	529
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83		3	15	509	559
84	12	4	15	506	503
85		11	08	591	491
85		4	23	515	5-5
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127		Count	14	...	1
128		16	1130	...	470

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128		21	1130	470
130	8	Mean	11	215
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158	15	Count	11	24
167	17	25	23	1.9
175	19	15	15	225
176		25	1130	220
184	21	Count	1130	24
186	22	11	11	1.85
187		14	12	2.00
191	23	17	14	12.8
191		18	14	J 12.0S
198	25	9	11	C
198		10	11	C
198		26	11	A
209	27	18	1430	4.0
230	33	13	11	J 2.10R
232		11	1130	U 2.20C
232		23	1130	2.20
247	37	30	12	13.0
248		17	1130	12.0
262	41	Median	11	220
264		27	1130	215
278	45	5	11	11.4
278		9	10	13.9
278		12	10	11.3
278		13	10	12.3
278		14	10	U 13.9R
278		23	10	11.3
278		30	11	12.3
278		31	11	12.0
281	45	28	1230	9.8
293	48	28	1330	12.0
295	49	Mean	14	4.3
298	50	19	09	2.9
298		26	09	2.9
298		Count	11	28
307	52	19	19	360F
308		3	1130	220H
308		7	1130	200H
308		15	1030	205
318	55	23	01	2.85
319		26	14	2.00
322	56	28	11	9.8
323		Mean	22	U 9.5
345	61	20	1330	3.0
359	65	30	18	100
365	66	12	2230	2.30

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Kodaikanal Observatory

Bulletin No. CLVI

PUBLISHED ON 1st JULY, 1963

INTRODUCTION

This Bulletin for the first half of 1958 contains apart from the usual summary of prominence and calcium flocculi observations, other additional data, especially collected for the I. G. Y., in respect of surges, active prominence regions and sunspots as well as information concerning the hours of flare patrol and the times at which photoheliograms and spectroheliograms were secured at this observatory.

PART I

SUMMARY OF PROMINENCE AND CALCIUM FLOCCULUS OBSERVATIONS FOR THE FIRST HALF OF 1958

The results of observations of prominences and calcium flocculi made at Kodaikanal Observatory during the first half of 1958 supplemented by data computed from photographs supplied by Mount Wilson and Meudon Observatories for those days on which Kodaikanal had imperfect or no observations are summarised in Part I of this Bulletin.

Calcium Prominences on the limb.—During the half-year under review, photographs of calcium prominences on the limb were obtained at Kodaikanal on 152 days which were counted as 151 1/4 effective days after giving due weightage to the photographs according to their quality. Spectroheliograms were obtained for fifteen days from the Meudon Observatory and for 20 days from the Mount Wilson Observatory. In all complete observations were available for 171 1/4 effective days.

The mean daily areas (in square minutes of arc) and the mean daily numbers of prominences derived from all the above records are given below :—

		Combined data	
		Mean daily areas (Sq. minutes)	Mean daily numbers
North	.	4.37	5.6
South	.	2.07	3.8
TOTAL		6.44	9.4

The above figures show that compared to the previous half-year there has been a slight increase in areas and numbers amounting to 6.8 per cent and 5.8 per cent respectively.

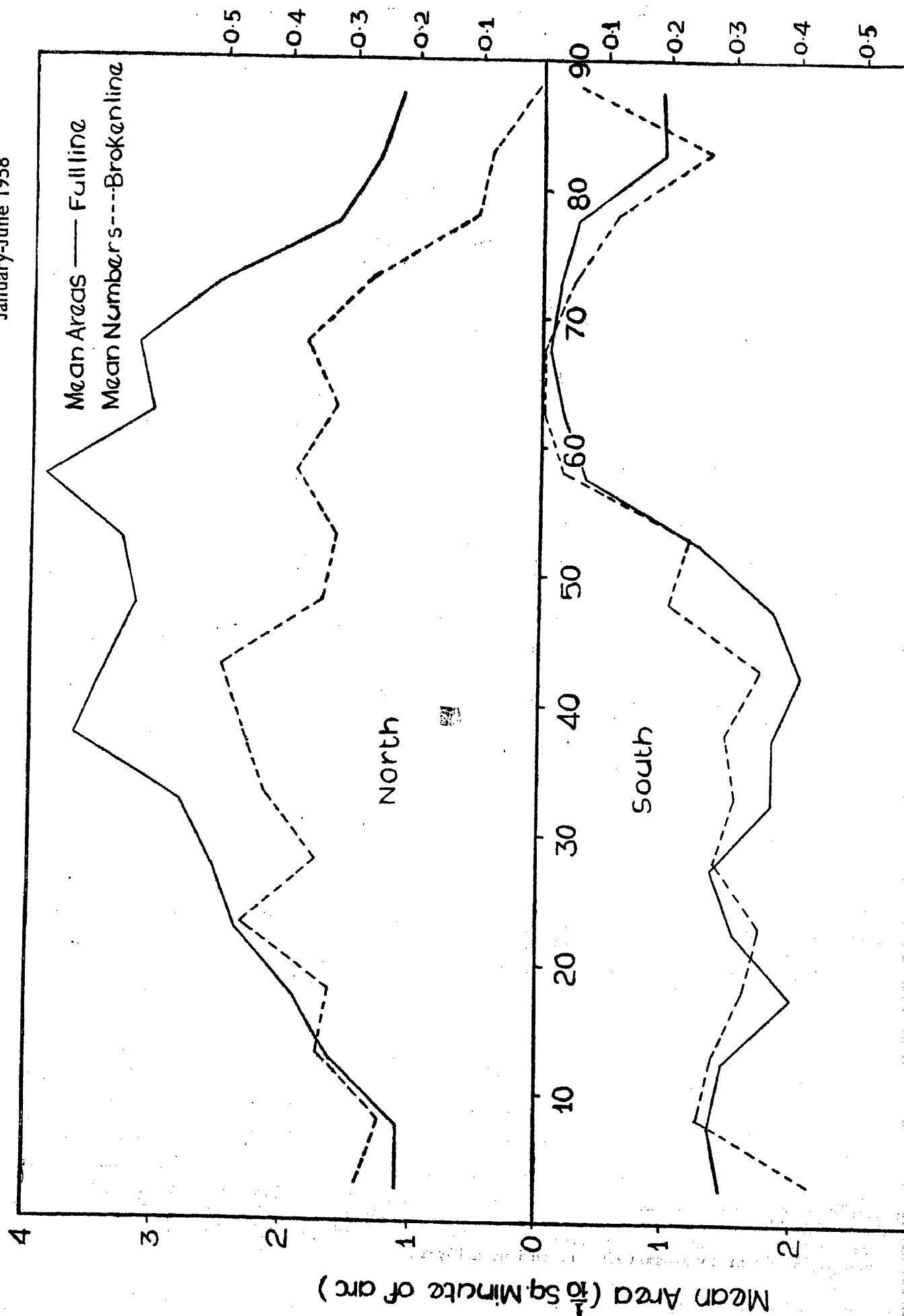
For comparison with data published in bulletins prior to 1923, i.e. before the co-operation of the other observatories came into force, the following table gives the values based on Kodaikanal Observations alone.

		Kodaikanal data	
		Mean daily areas (sq. minutes)	Mean daily numbers
North	.	3.94	5.4
South	.	1.89	3.2
TOTAL		5.83	9.03

The distribution of areas and numbers in five-degree ranges of latitude as obtained from the combined data is represented in diagram I. The peaks of activity for areas in the northern hemisphere are in the latitude belts 35°—40° and 55°—60°. In the southern hemisphere the maximum activity is in the belt 40°—45°. The activity near the pole has increased considerably in comparison with the previous half-year.

DIAGRAM I

Mean Areas & Mean Numbers of Calcium Prominences
January-June 1958



The monthly, quarterly and half-yearly areas, numbers, heights and extents of prominences derived from all the photographs are given in Table I.

TABLE I

1958 Months	No. of effective days	Area (in sq. minutes)	Numbers	Daily Means		Mean height	Mean extent
				Area (sq. minute)	Numbers		
January	29 $\frac{1}{2}$	183.05	287	6.15	9.65	56.2	4.92
February	25	147.90	224	5.92	8.96	54.0	5.52
March	30	229.80	314	7.66	10.46	53.8	5.22
April	28	171.25	272	6.12	9.71	54.5	5.42
May	29	165.35	250	5.70	8.62	55.2	5.21
June	29 $\frac{1}{2}$	206.80	268	7.01	9.08	54.6	5.85
1st quarter	84 $\frac{1}{2}$	560.75	825	6.62	9.73	54.7	5.19
2nd quarter	86 $\frac{1}{2}$	543.40	790	6.28	9.13	54.7	5.64
1st half-year	171 $\frac{1}{2}$	1104.15	1615	6.45	9.43	54.7	5.41

The distribution of prominences about the sun's axis of rotation is as follows :—

	1958 January-June	East	West	Percentage East
Total area (sq. minutes)		559.10	545.05	50.6
Total number		808	807	50.0

The figures indicate that both areas and numbers are distributed almost equally between east and west.

Observations with the Prominence Spectroscope.—17 bright reversals of H-alpha line and 2 dark reversals of D₃ line on the disc near sunspots were observed during the period.

The mean heights in H-alpha D₃ and H-beta lines of 15 prominences observed with the spectroscope and the mean height in the K-line of the same prominences measured from the calcium spectroheliograms were as follows :—

	Mean height
K	108.7
H-alpha	95.1
D ₃	80.3
H-beta	74.8

Observations with the Hale Spectrohelioscope.—Details of Doppler displacements in prominences and dark markings observed with the H-alpha line are summarised below :—

	North	South	East	West	Total	Displacements		
						To red	To violet	Both ways
Displacements in Prominences	40	31	38	33	71	..	1	70
Displacements in dark markings	18	7	13	12	25	..	..	25

Solar Flares—

The following table (table II) gives details of solar flares observed during the period.

TABLE II

Date 1958	Time in I.S.T.			Mean latitude	Mean Longitude from Central Meridian	Intensity	Maximum width of H-alpha line observed	Remarks
	Beg. h. m.	Max. h. m.	End h. m.					
January 15	10 30	10 44	11 07	14°S	52°W	1	A° 1.9	Observed in spectrohelioscope.
January 25	15 40*	..	..	25°S	73°W	Probably 2	2.4	Ditto. (observed through passing clouds).
February 26	10 19*	..	10 22	17°S	16°W	1	1.8	Observed in spectrohelioscope.
February 26	11 20*	..	11 30	17°S	60°W	1	2	Ditto.
March 3	16 10*	..	..	15°S	54°E	Probably 2	2.0	Ditto. (through thick clouds)
March 10	07 40	07 43	07 47	11°N	35°E	1	2.0	Observed in spectrohelioscope.
March 21	15 51	15 52	16 10	20°N	20°E	1+	4.0	Ditto.
March 25	11 08*	..	11 17	15°N	25°E	1+	2.0	Ditto.
April 2	10 32*	..	10 37	26°S	34°W	2	4.8	Ditto.
April 3	09 42	09 50	09 58	15°S	19°E	1	2.2	Ditto.
April 8	08 35	08 48	09 08	17°S	47°W	1	2.8	Ditto.
June 6	10 28*	..	10 37	17°N	78°W	Probably 2	2.4	Ditto.
June 10	11 32*	..	11 42	44°N	03°W	1	1.6	Ditto.
June 11	08 01*	..	08 10	44°N	17°W	1+	2.6	Ditto.
June 19	07 42	07 48	08 07	15°N	19°W	2	2.7	Ditto.
June 26	08 15	08 16	08 20	10°N	48°E	1	1.6	Ditto.

*Time when flare was first observed and not beginning of flare.

Sudden disappearances of Prominences and H-alpha Dark Markings.—Details of sudden disappearances of prominences and H-alpha dark markings observed during the period are summarised in Table III.

TABLE III

Nature of Phenomena	Date and time of Phenomenon when last seen			Coordinates of Phenomenon		Remarks
	Month	Date	I.S.T.	Mean latitude	Mean Longitude	
H-alpha dark marking	March	28	1425	50°S	40°E	Not seen on spectroheliogram taken at 0840 of 29th.

Prominences projected on the disc as absorption markings.—During the period under review photographs of the sun's disc in H-alpha line were obtained at Kodaikanal on 158 days. Spectroheliograms were also received for 15 days from the Mount Wilson Observatory and for 11 days from the Meudon Observatory. On the whole records were available for 172 effective days after giving due weightage to the quality of the photographs.

The mean daily areas in millionths of the sun's visible hemisphere (uncorrected for foreshortening) and the mean daily numbers of H-alpha dark-markings as derived from the combined data are as follows :—

		Combined data	
		Mean daily area (millionths of the sun's visible hemisphere)	Mean daily number
North	. . . . .	2867	15.80
South	. . . . .	1874	11.87
TOTAL		4741	27.67

On comparing with the previous half-year's values, these figures show a very slight increase in activity, the areas showing an increase of 2.5 per cent and the numbers 1.4 per cent. The figures based solely on Kodaikanal photographs are also given for purposes of comparison with similar data.

		Kodaikanal data only	
		Mean daily area (millionths of the sun's visible hemisphere)	Mean daily numbers
North	. . . . .	2927	15.74
South	. . . . .	1939	11.93
TOTAL		4866	27.67

The distribution of the areas of the markings in five-degree ranges of latitude as obtained from the combined data is shown in diagram II. In the northern hemisphere the distribution is almost the same as in the previous half-year with the peak of activity in the latitude belt 35° — 40° . In the southern hemisphere the maximum activity is in the zone 25° — 30° with a secondary maximum in the latitude belt 40° — 45° .

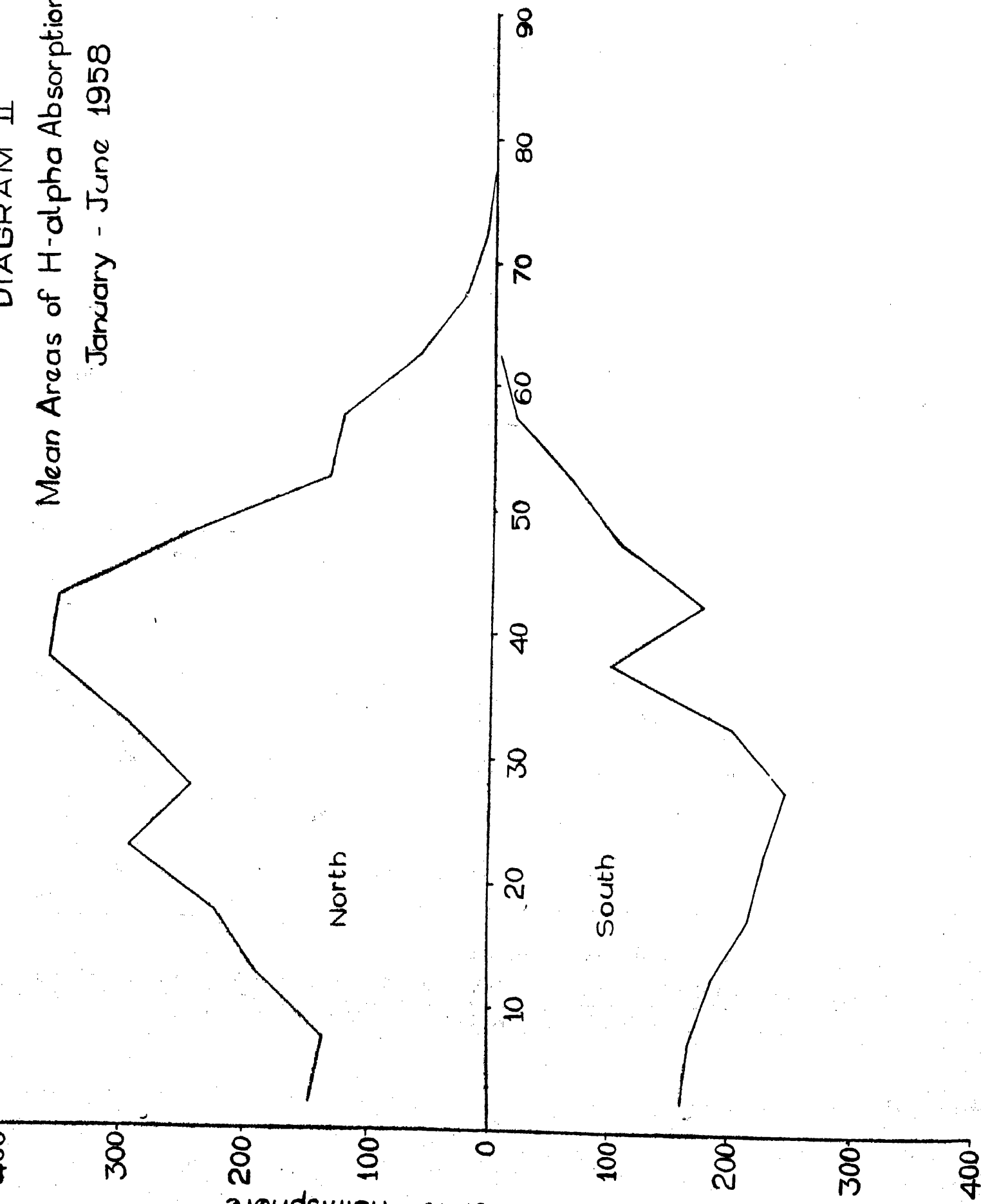
The distribution of total areas and numbers of the dark markings east and west of the sun's axis is as follows :—

		Combined data		
		East	West	Percentage East
Total area (millionths of the sun's visible hemisphere—uncorrected for foreshortening)	. . . . .	393,096	422,040	48.2
Total number	. . . . .	2358	2403	49.5

The areas and numbers show a slight western preponderance.

Calcium Flocculus.—During the half-year under review, calcium flocculus spectroheliograms were secured on 155 days at Kodaikanal. Calcium spectroheliograms for 19 days were received from the Mount Wilson Observatory and for 15 days from the Meudon Observatory. In all observations were available for 174 1/2 effective days.

Mean Areas of H-alpha Absorption Markings January - June 1958



The mean daily areas (in millionths of the sun's visible hemisphere—uncorrected for foreshortening) computed from the combined data are given below :—

		Combined data
		Mean daily area (millionths of the sun's visible hemisphere)
North	.	16,305
South	.	11,529
TOTAL		27,834

Compared to the previous half-year's value there is a decrease of 8.5 per cent in the mean daily area.

The distribution of flocculi east and west of the sun's axis of rotation is as follows :—

	East	West	Percentage East
Total area (millionths of the sun's visible hemisphere)	2,617,721	2,247,811	53.8

The western excess noticed during the previous half-year has changed into an eastern excess during the half-year under review.

Our thanks are due to the co-operating observatories for the photographs supplied by them.

Special I. G. Y. data are given in tables IV to IX.

TABLE IV
Eruptive Prominence

Date	Phenomenon	Importance	Time I.S.T.		Position (Heliographic)		Direction of Out-flow	Remarks*
			Begin	End	Latitude	Long. diff. from CM		
1st January, 1958	EPL	3+	1410	1545	10°S	90°E	r	T, u, Ws. Most of the prominence disappeared by 1545.
9th January, 1958	EPL	3+	0840	0924	53°N	90°E	r	T, Ws. Most of the prominence disappeared by 0924.
9th January, 1958	APR	1	0942	1516	42°N	90°W	r	K
9th January, 1958	EPL	3	1437	1500	17°S	90°W	S	T, Ws. Most of the prominence disappeared by 1500.
15th January, 1958	APR	1	0935	1010	19°N	90°E	r	I.
1st March, 1958	EPL	1	0955	1100	15°S	90°E	r	S
5th March, 1958	BSL	1	1045	1050	50°N	90°W	r	..
19th March, 1958	BSL	1	1140	1220	5°N	90°W	r	G
10th April, 1958	BSL	3	1032	1055	39°N	90°E	r	..
22nd April, 1958	EPL	2	0845	0940	50°N	90°W	r	u, Ws.

*The symbols used are the same as those given in the I. G. Y. Instruction Manual for Solar Activity.

TABLE V
Flare Patrol Hours (Spectroheliograph)

Month and date	Period of watch (IST)	Month and date	Period of watch (IST)
1958			
January 1st	0730—0830; 0930—1000; 1040—1110; 1130—1200; 1445—1515; 1545—1600.	22nd	0820—0920; 0930—1000; 1030—1100; 1130—1200; 1400—1430; 1530—1545.
4th	0730—0830; 0930—1000; 1030—1100; 1130—1200.	23rd	0735—0830; 0930—1000; 1030—1100; 1130—1200; 1415—1430.
5th	0730—0830; 0930—1000; 1030—1100; 1130—1200; 1400—1430; 1530—1600.	24th	0735—0830; 0930—1000; 1030—1100; 1130—1200.
6th	1125—1145; 1410—1420.	25th	1200—1215; 1405—1440; 1500—1515.
7th	0730—0830.	26th	0730—0820; 0825—0835.
8th	0745—0835; 0930—1000; 1030—1100; 1130—1200; 1405—1430; 1530—1600.	27th	0740—0830; 0930—1000; 1145—1255.
9th	0800—1000; 1030—1100; 1130—1200; 1400—1500.	28th	0740—0815; 0955—1000; 1440—1450.
10th	0730—0830; 0930—1000; 1030—1100; 1130—1200; 1410—1430; 1530—1600.	29th	0830—0915; 0930—1000; 1030—1100; 1130—1145.
11th	0730—0830; 0930—1000; 1030—1100; 1130—1145; 1400—1430; 1530—1600.	30th	0730—0830; 0930—1000; 1030—1100; 1130—1200.
12th	0745—0830; 0930—1000; 1030—1100; 1130—1200; 1405—1430; 1530—1600.	31st	0740—0830; 0930—1000; 1030—1100.
13th	0735—0835; 0930—1000; 1030—1100; 1130—1200; 1415—1430.	February 2nd	0745—0845; 0930—1000; 1030—1100; 1130—1200; 1400—1430.
14th	1130—1200.	3rd	0800—0900; 0930—1000; 1030—1100.
15th	0740—0830; 0930—1010; 1030—1110; 1130—1200; 1400—1430.	7th	0740—0840; 0930—1000; 1030—1100; 1130—1200.
16th	0745—0830; 0930—1000; 1040—1100; 1130—1200.	9th	0800—0840; 0945—1010; 1030—1100; 1130—1200; 1415—1425.
17th	0730—0830; 0930—1000; 1030—1100; 1130—1200.	10th	0730—0830; 0930—1000; 1030—1100; 1130—1200.
18th	0730—0830; 0930—1000; 1030—1100; 1130—1200; 1400—1430; 1530—1600.	11th	0730—0830; 0930—1000; 1030—1100; 1130—1150.
19th	0735—0830; 0930—1000; 1030—1100; 1130—1200; 1405—1430; 1530—1600.	12th	0730—0830; 1125—1200.
20th	0735—0830; 0935—1000; 1030—1100; 1130—1200; 1410—1430; 1530—1600.	13th	0735—0830; 0930—1000; 1030—1100; 1130—1200; 1405—1430; 1530—1600.
21st	0735—0835; 0930—1000; 1030—1100; 1130—1200; 1410—1430.	14th	0745—0830; 0930—1000; 1030—1100; 1130—1200; 1400—1430.
		15th	0745—0845; 0930—1000; 1030—1100; 1130—1200; 1400—1430; 1530—1600.

TABLE V—*contd.*

Month and date	Period of watch (IST)	Month and date	Period of watch (IST)
1958			
February 16th	0745—0830; 0930—1000; 1030—1100; 1130—1200; 1400—1430; 1530—1600.	9th	0745—0830; 0930—1000; 1030—1100; 1130—1200; 1400—1430; 1530—1550.
17th	0745—0830; 0930—0955; 1030—1100; 1130—1200; 1400—1415.	10th	0730—0830; 0930—1000; 1030—1100; 1130—1200; 1415—1430; 1530—1600.
18th	0750—0830; 0930—1000; 1030—1100.	11th	0730—0830; 0930—1000; 1030—1100.
19th	0900—0915; 0930—1000; 1030—1100; 1130—1200; 1410—1430.	12th	0730—0830; 0930—1000; 1030—1100.
20th	0745—0830; 0930—1000; 1030—1050.	13th	0800—0815; 1000—1020; 1030—1100; 1130—1200.
21st	0745—0830; 0930—1000; 1030—1100; 1130—1200.	14th	0730—0830; 0930—1000; 1130—1200; 1415—1420.
22nd	0845—1000; 1030—1100; 1130—1200.	15th . . . . .	..
23rd	0745—0830; 0930—1000; 1030—1040.	16th	0825—0845; 1400—1430.
24th	0745—0830; 0930—1000.	17th	0810—0900; 0930—1000; 1030—1100; 1130—1200; 1400—1430; 1530—1600.
25th	0815—0900; 1015—1030; 1045—1055; 1400—1415.	18th	0730—0830; 0930—1000; 1030—1100; 1130—1200; 1400—1430; 1530—1600.
26th	0742—0830; 0930—1000; 1019—1025; 1120—1150.	19th	0730—0830; 0930—1000; 1030—1100; 1130—1200; 1400—1430; 1530—1555.
27th	0730—0830; 0930—1000; 1030—1100; 1130—1200.	20th	0730—0830; 0930—1000; 1035—1100; 1135—1200; 1400—1430; 1530—1600.
28th	0730—0830; 0930—1000; 1030—1100; 1130—1200.	21st	0730—0830; 0930—1000; 1030—1100; 1130—1200; 1400—1430; 1530—1610.
March		22nd	0900—1000; 1030—1100; 1130—1145.
1st	0735—0830; 0920—1100; 1130—1200.	23rd	0730—0830; 0930—1000; 1030—1100; 1130—1150.
2nd	0745—0830; 0930—1000.	24th	0730—0830; 0925—0940; 0945—0955; 1030—1100; 1130—1145; 1420—1430.
3rd	0730—0830; 0930—1000; 1030—1100; 1130—1200.	25th	0730—0830; 0930—1000; 1030—1100; 1108—1117.
4th	0730—0830; 0930—1000; 1030—1100; 1130—1200.	26th	0730—0830; 0930—1000; 1030—1100; 1130—1200.
5th	0733—0830; 0930—1000; 1030—1100; 1130—1200; 1400—1430; 1530—1600.	27th	0730—0830; 0930—1000; 1030—1100; 1130—1200.
6th	0730—0830; 0930—1000; 1030—1100; 1130—1140.	28th	0730—0830; 0930—1000; 1030—1100; 1140—1150; 1155—1200; 1410—1430.
7th	0730—0830; 0930—1000; 1030—1100.		
8th	0730—0830; 0930—1000; 1030—1100; 1130—1200; 1400—1430; 1530—1600.		

TABLE V—*contd.*

Month and date		Period of watch (IST)	Month and date		Period of watch (IST)
1958					
March	29th	0730—0830; 0930—1000; 1030—1100; 1130—1200; 1400—1430; 1530—1545.		19th	0642—0730; 0730—0840; 0930—1000.
	30th	0730—0830; 0930—1000; 1030—1100; 1130—1200.		20th . . . . .	..
	31st	0730—0830; 0930—1000; 1030—1100; 1130—1140; 1140—1225; 1410—1430; 1535—1545.		21st . . . . .	..
				22nd	0735—0900; 0925—1000; 1030—1040; 1045—1100.
				23rd	0730—0830; 0930—1000; 1030—1100; 1130—1200; 1410—1420.
April	1st	0800—0820; 0850—0915; 0930—1000; 1030—1100; 1130—1200.		24th	0730—0830; 0930—1000; 1030—1100; 1130—1210; 1400—1430.
	2nd	0750—0840; 0930—1010; 1030—1100; 1130—1200; 1400—1430.		25th	0745—0805; 0930—0936; 0959—1010.
	3rd	0940—1040.		26th	0730—0800; 0900—0910; 0940—1000; 1405—1430.
	4th	0920—1000; 1030—1100.		27th	0730—0830; 0930—1000; 1030—1045.
	5th	0730—0830; 0930—1000; 1030—1100; 1130—1200.		28th	0745—0830; 0930—1000; 1140—1146.
	6th	0750—0830.		29th	0750—0815; 0825—0845; 1405—1430.
	7th	0725—0830; 0930—1000; 1030—1100; 1130—1200.		30th	0840—0900.
	8th	0730—0921; 0930—1000; 1030—1100.	May	1st	0730—0830; 0930—1000; 1030—1100.
	9th	0730—0830; 0930—1000; 1030—1100; 1130—1200; 1405—1430; 1530—1555.		2nd	0732—0800; 0935—1000; 1150—1200.
	10th	0740—0830; 0930—1000; 1030—1100.		4th	0930—1000.
	11th	0945—1015; 1030—1100; 1130—1150.		8th	0840—0940; 1030—1100; 1130—1200.
	12th	0730—0840; 0930—1000; 1130—1200.		9th	1040—1055; 1205—1220.
	13th	0730—0830; 0930—1000; 1030—1100; 1140—1200.		10th	0930—1000; 1020—1040.
	14th	0730—0830; 1030—1100; 1130—1200.		12th	1120—1200.
	15th	1140—1220; 1400—1430.		14th	0755—0840; 1040—1050.
	16th	0730—0830; 0930—1000; 1030—1100; 1130—1145.		15th	0740—0830.
	17th	0735—0830; 0930—1000; 1040—1100; 1130—1200.		16th	0950—1100; 1130—1200.
	18th	0730—0830; 0930—1000; 1030—1100; 1130—1200.		17th	0800—0835; 1045—1100; 1130—1200.
				18th	0800—0830; 0845—0900; 0930—1000; 1030—1050.
				19th	0730—0830; 0930—1000; 1030—1100; 1130—1200.

TABLE V—*concl'd.*

Month and date			Period of watch (IST)	Month and date			Period of watch (IST)
1958	May	20th	0735—0840; 0930—1000; 1030—1100; 1400—1420.			6th	0800—0825; 0930—1000; 1028—1040; 1144—1150.
		21st	0745—0830; 0930—1000; 1030—1100; 1130—1200.			7th	0730—0830; 0930—1000; 1030—1100; 1130—1150.
		22nd	0845—0930; 0930—0950.			8th	1406—1418; 1530—1536.
		23rd	0840—0900; 0930—0945; 1145—1200.			9th	0730—0830; 0930—1000; 1030—1100; 1130—1200; 1400—1430; 1530—1550.
		24th	0800—0900; 0930—1000; 1030—1100; 1130—1200.			10th	0730—0830; 0930—0948; 1030—1100; 1130—1200; 1410—1420.
		25th	0730—0830; 0930—1000.			11th	0740—0830; 0930—1000; 1030—1100; 1130—1140.
		26th	0730—0830; 0930—1000; 1054—1100; 1138—1200.			12th	0730—0830; 0930—1000; 1030—1100; 1130—1142.
		27th	0730—0810; 0820—0830; 0940—0950; 0954—1000; 1030—1100; 1150—1200.			13th	0845—0950; 1045—1110; 1130—1200.
		28th	0730—0830; 0930—1000; 1030—1100.			14th	0730—0830; 0930—0950; 1030—1050; 1050—1100.
		29th	0730—0800; 0930—1000; 1030—1035.			16th	0850—0920; 0940—1000; 1030—1050; 1130—1200.
	June	30th	0730—0830; 0930—1000; 1030—1100; 1130—1200.			18th	1130—1200.
		31st	0730—0830; 0930—1000; 1030—1100; 1137—1148.			19th	0738—0840; 0930—1000; 1030—1100; 1130—1200.
		1st	0805—0817; 0840—0900; 0930—0945; 1055—1120.			21st	1430—1440; 1530—1540.
		2nd	0730—0830.			22nd	0750—0830; 1030—1050.
		3rd	0830—1000; 1030—1100.			26th	0730—0737; 0805—0830; 1055—1105.
		4th	0730—0830; 0930—1000; 1030—1100; 1145—1200.			28th	0830—0840; 0850—0900; 0930—0945.
		5th	1100—1145.				

TABLE VI
List of Spectroheliograms

Month and date		H-alpha		K-Flocculus		K-Prominence	
		Hour (IST)	Min.	Hour (IST)	Min.	Hour (IST)	Min.
1958	January 1st	07	31	08	03	08	11
		07	53	08	06	08	15
		09	25	11	25	11	28
		11	18			14	46
						14	49
						15	03
						15	09

TABLE VI—*contd.*

Month and date			H-alpha		K-Flocculus		K-Prominence	
			Hour (IST)	Min.	Hour (IST)	Min.	Hour (IST)	Min.
1958	January	4th	09	29	08	05	08	19
			09	34	08	07	08	25
			11	27	11	34	11	39
			14	32	15	08	..	..
	5th		07	37	08	08	08	13
			07	41	08	10	08	18
			09	08	11	44	11	47
			09	12	..	..	11	57
			11	37	14	40	14	44
			14	34				
	6th		14	13	14	21		
	7th		07	42	08	01	07	50
			08	24	08	04	08	10
			09	10				
	8th		08	36	08	50	09	01
			10	02	08	55	09	06
			..	..	10	08	..	..
			11	30	11	36	11	39
			13	46	13	51	13	55
	9th		08	08	08	21	08	31
			08	14	08	24	08	37
			11	39	11	34	09	19
			11	51	13	59	09	23
							11	29
							14	04
							14	40
	10th		07	36	07	47	07	55
			07	40	07	49	08	01
			11	34	11	42	11	47
			14	19	14	21	14	32
	11th		07	35	09	11	09	18
			09	05	09	13	09	23
			11	43	11	48	11	51
			14	12	14	18	14	22
	12th		08	11	08	23	08	29
			08	15	08	24	08	34
			11	55	12	01	12	06
			14	45	14	51	14	57
	13th		07	45	08	00	08	14
			07	50	08	04	08	24
			11	07	11	15	11	20
			14	41	14	28	14	33
	14th		11	31	11	41	11	46
			11	35	11	43	11	51
	15th		07	32	07	43	07	50
			07	36	07	46	07	54
			10	49	11	39	11	45
			11	51	..	..	..	..
			14	13	14	19	..	..
	16th		07	49	07	58	08	04
			07	48	07	59	08	08
			11	42	11	59	11	51

TABLE VI—*contd.*

Month and date		H-alpha		K-Flocculus		K-Prominence	
		Hour (IST)	Min.	Hour (IST)	Min.	Hour (IST)	Min.
1958							
January	17th	07	53	08	03	08	10
		07	57	08	06	08	14
		11	13	11	25	11	30
	18th	07	36	07	47	07	54
		07	39	07	49	07	57
		11	49	11	36	11	40
		12	20	12	26	14	30
	19th	07	32	07	45	07	52
		07	38	07	48	07	58
		11	35	11	41	11	46
		14	14	14	06	14	03
	20th	07	43	07	57	08	05
		07	48	07	59	08	09
		11	41	11	45	11	50
		14	04	14	10	14	14
	21st	07	46	08	00	08	09
		07	51	08	04	08	14
		11	19	11	28	11	32
		14	02	14	08	14	14
	22nd	08	20	08	36	08	42
		08	23	08	38	08	47
		11	33	11	41	11	48
		14	27	14	40	14	36
	23rd	07	34	07	47	07	54
		07	39	07	49	10	51
		11	45	11	51	11	54
		14	30	14	35	..	..
	24th	07	41	07	53	08	00
		07	45	07	55	08	05
		11	33	11	43	11	46
	25th	14	13	14	30	15	10
		14	18	15	20	15	15
	26th	07	39	07	54	08	04
		07	44	07	57	08	09
	27th	07	32	07	43	07	50
		07	36	07	45	07	55
		11	19	11	24	11	28
		14	11	14	16	..	..
	28th	07	43	08	09	09	13
		07	50	09	07	09	18
		14	51				
	29th	08	36	09	39	09	48
		09	29	09	42	..	..
	30th	07	41	07	53	08	08
		07	46	07	55	08	13
		11	37	11	44	11	49
	31st	07	36	07	46	07	53
		07	40	07	48	07	57

TABLE VI—*contd.*

Month and date		H-alpha		K-Flocculus		K-Prominence	
		Hour (IST)	Min.	Hour (IST)	Min.	Hour (IST)	Min.
1958 February	2nd	08	03	08	22	08	31
		08	08	08	24	08	36
	3rd	08	20	08	35	08	44
		08	25	08	37	08	49
		10	09	..	..	..	..
	4th	08	19	08	34	08	42
		08	23	08	36	08	47
	7th	07	44	07	50	07	01
		09	18	09	11	09	02
		..	..	11	41	11	46
	9th	07	56	08	11	08	20
		08	02	08	13	08	25
		11	29	11	49	11	45
		14	40	14	34	14	30
	10th	07	52	08	05	08	14
		07	57	08	07	08	19
		11	41	11	52	11	57
		14	04	14	13	14	20
	11th	07	36	07	47	07	54
		07	40	07	40	07	59
		11	39	..	..	..	..
	12th	07	53	08	04	08	10
		07	57	08	06	08	15
		11	36	11	45	11	51
	13th	07	39	07	51	07	57
		07	44	07	53	08	05
		11	41	11	48	11	52
		14	22	14	16	14	18
	14th	07	41	07	59	08	06
		07	45	08	02	08	18
		11	10	11	19	11	25
		14	10	14	19	14	24
	15th	07	40	07	51	08	08
		07	44	07	55	08	09
		11	24	11	45	11	51
		14	47	14	59	15	03
	16th	07	48	08	01	08	07
		07	52	08	02	08	13
		11	39	11	45	11	51
		14	17	14	25	14	31
	17th	07	37	07	44	07	51
		08	21	08	09	08	14
		11	22	11	35	11	42
		14	03				
	18th	07	40	07	52	07	59
		07	44	07	54	08	06
	19th	10	10	10	15	10	22
		10	31	10	17	10	25
		13	06	13	12	13	16

TABLE VI—*contd.*

Month and date		H-alpha		K-Flocculus		K-Prominence	
		Hour (IST)	Min.	Hour (IST)	Min.	Hour (IST)	Min.
1958 February	20th	07	37	09	13	07	56
		07	41	09	15	08	00
	21st	07	53	08	03	08	18
		07	57	08	06	08	22
		12	37	08	13	..	..
	22nd			12	44	12	49
		07	52	09	01	09	09
		08	54	09	03	09	13
		11	53	12	00	..	..
	23rd	07	39	07	51	07	58
		07	43	07	54	08	03
	24th	07	46	08	00	08	08
		07	50	08	02	08	13
	25th	07	35	07	47	08	35
		07	40	07	50	08	40
	26th	07	35	07	45	07	52
		07	37	07	47	08	07
		10	26	08	51	08	56
		11	33	11	38	11	42
	27th	07	38	07	52	08	01
		07	42	07	55	08	09
		09	23	11	43	11	50
		..	..	..	..	11	57
	28th	07	31	07	41	07	48
		07	37	07	44	07	52
		11	39	11	44	11	46
March	1st	07	36	07	45	07	52
		07	40	07	47	07	58
		11	47	11	35	10	26
	2nd					11	40
		08	35	08	44	08	51
		08	39	08	46	08	56
		01	15	11	36	11	47
		11	21				
	3rd	07	31	07	41	07	47
		07	34	07	42	07	50
		11	38	11	30	11	32
	4th	07	36	07	46	07	54
		07	40	07	49	07	58
		11	31	11	41	..	..
	5th	07	35	07	50	08	04
		07	40	07	52	08	09
		11	31	11	36	11	40
		14	26	14	31	14	38
	6th	07	36	07	46	07	51
		07	39	07	47	..	..
		08	59	08	05	..	..

TABLE VI—contd.

Month and date		H-alpha		K-Flocculus		K-Prominence	
		Hour (IST)	Min.	Hour (IST)	Min.	Hour (IST)	Min.
1958 March	7th	07 07 11	37 40 27	07 07 11	46 48 35	07 08	55 01
	8th	07 07 08 09 11 14	34 37 32 05 11 34	07 07 11 11 14 ..	43 46 18 22 21 ..	07 07 14	51 55 18
	9th	07 07 11 14 ..	38 41 40 33 ..	07 07 11 14 ..	48 50 31 16 ..	07 07 09 11 14	54 59 19 34 26
	10th	07 07 11 14	47 52 20 51	08 08 .. 14	00 03 .. 59	08 08 11 15	09 15 37 04
	11th	07 07	36 40	07 07	45 47	07 07	51 55
	12th	07 07	35 44	08 08	00 03	08 08	17 21
	13th	07 08 10 11	59 11 51 36	08 09 11 ..	18 59 42 ..	10 10 11 ..	04 09 46 ..
	14th	07 07 11	41 46 29	07 07 11	52 54 36	08 08 11	00 05 41
	15th	07 07	41 46	07	51		
	16th	13 13	46 49	13 13	55 58	14 14	01 05
	17th	08 08 11 14	20 24 39 14	08 08 11 14	31 34 47 29	08 08 11 14	39 44 55 34
	18th	07 07 11 13	26 52 20 45	07 07 08 11 13	32 34 42 38 38	07 07 11 13	39 46 42 55
	19th	07 07 15	41 45 20	07 07 11 14	51 54 46 50	07 08 11 14	59 06 50 50
	20th	07 07	41 45	07 07	50 53	07 08	58 07

TABLE VI—contd.

Month and date						H-alpha		K-Flocculus		K-Prominence	
						Hour (IST)	Min.	Hour (IST)	Min.	Hour (IST)	Min.
1958	March	20th				11	41	11	48	11	52
						14	51	14	42	14	39
		21st				07	41	07	54	08	02
						07	48	07	57	08	08
						11	26	11	33	11	36
						14	15	14	22	14	26
		22nd				09	06	09	20	09	35
						09	11	09	23	09	41
						09	18	11	35	11	32
		23rd				07	48	07	57	08	05
						07	52	08	00	08	10
						11	42	11	47	11	51
		24th				07	36	07	44	07	52
						07	40	07	47		
						08	44			08	54
								14	35	14	58
		25th				14	21				
						07	35	07	44	07	51
		26th				07	39	07	55	07	56
						11	18			08	29
						07	43	07	50	08	02
						07	47	07	57	08	08
		27th				11	33	11	38	11	45
						07	37	07	50	07	56
						07	42	07	52	08	00
		28th				11	31	11	36	11	40
						10	26	11	26	10	08
						10	31	11	35	10	12
						14	25	14	31	14	35
		29th				08	40	08	50	08	35
						10	14	09	58	11	35
						11	50	11	45	11	42
						14	17	14	23	14	27
		30th				07	39	07	57	08	17
						07	44	08	01	08	10
						11	38	11	49	11	45
		31st				07	36	07	53	07	59
						08	46	07	55	08	04
						11	48	11	37	11	31
						14	37	15	18	15	16
	April	1st				08	57	09	09	09	18
						09	02	09	11	09	23
						11	25	11	30	11	35
						13	45	13	37	13	34
		2nd				07	59	08	11	08	19
						08	03	08	14	09	24
						10	41	11	37	11	34
						14	26				
						14	25	14	31		

TABLE VI—*contd.*

Month and date										H-alpha		K-Flocculus		K-Prominence	
										Hour (IST)	Min.	Hour (IST)	Min.	Hour (IST)	Min.
1958	April	3rd	.	.	.	.	.	.	.	10 10	01 08	10	18		
		4th	.	.	.	.	.	.	.	09 09	24 28	09 09	37 38	09 09	44 49
		5th	.	.	.	.	.	.	.	07 08 11	28 02 41	07 11	36 46	07 07 11 11	38 45 55 50
		6th	.	.	.	.	.	.	.	07 07	40 44	07 07	50 52	07 08	57 17
		7th	.	.	.	.	.	.	.	07 07 11	37 43 47	07 07 11	52 54 54	08 08 11	02 06 59
		8th	.	.	.	.	.	.	.	07 07 09	37 41 00	07 07 09	49 53 18	07 08	57 02
		9th	.	.	.	.	.	.	.	07 07 11 14	40 45 31 12	07 07 11 14	53 55 37 16 22	08 08 18 11	00 07 40 26
		10th	.	.	.	.	.	.	.	07 07 .. 11	35 38 .. 45	07 07	45 48	07 07 10 10	53 57 45 41
		11th	.	.	.	.	.	.	.	10 11	10 17	10 10	19 59	10 11	33 10
		12th	.	.	.	.	.	.	.	07 07 08 11 14	38 42 41 56 26	07 07 11 .. 14	48 50 49 .. 37	07 07 09 11	54 59 30 47
		13th	.	.	.	.	.	.	.	07 07 11	32 57 18	07 07 11	45 47 23	07 07 11	53 57 27
		14th	.	.	.	.	.	.	.	07 07 10	36 41 45	07 07 ..	49 52 ..	07 08 ..	57 10 ..
		15th	.	.	.	.	.	.	.	11 11 14	51 55 25	14 14	06 09	14	13
		16th	.	.	.	.	.	.	.	07 07 08 11 11	36 44 49 46 48	07 07 11 14	51 54 36 57	08 08 11 15	02 07 34 07
		17th	.	.	.	.	.	.	.	07 07 11	32 37 39	07 07 11	43 46 44	07 07 11	50 55 50

TABLE VI—*contd.*

Month and date										H-alpha		K-Flocculus		K-Prominence	
										Hour (IST)	Min.	Hour (IST)	Min.	Hour (IST)	Min.
1958	April	18th	.	.	.	.	.	.	.	07	38	07	51	07	57
			.	.	.	.	.	.	.	07	42	07	54	08	02
			.	.	.	.	.	.	.	11	19	11	24	11	27
		19th	.	.	.	.	.	.	.	07	05				
			.	.	.	.	.	.	.	07	16	09	12		
			.	.	.	.	.	.	.	09	07				
		20th	.	.	.	.	.	.	.	09	46				
			.	.	.	.	.	.	.	09	51				
		21st	.	.	.	.	.	.	.	..	..	..	..	..	..
		22nd	.	.	.	.	.	.	.	07	42	07	55	08	02
			.	.	.	.	.	.	.	07	49	07	57	08	05
		23rd	.	.	.	.	.	.	.	07	48	08	07	08	21
			.	.	.	.	.	.	.	08	00	08	09	08	27
			.	.	.	.	.	.	.	11	30	11	41	11	46
		24th	.	.	.	.	.	.	.	07	35	07	45	07	50
	May		.	.	.	.	.	.	.	07	40	07	47	07	56
			.	.	.	.	.	.	.	11	30	11	37	11	41
			.	.	.	.	.	.	.	14	26	14	21	14	17
		25th	.	.	.	.	.	.	.	07	55	09	43	09	50
			.	.	.	.	.	.	.	08	02	09	57	09	53
		26th	.	.	.	.	.	.	.	07	34	07	46	07	58
			.	.	.	.	.	.	.	07	41	07	48		
			.	.	.	.	.	.	.	14	06	14	16	14	12
		27th	.	.	.	.	.	.	.	07	52	08	01	08	09
			.	.	.	.	.	.	.	09	06	08	04	08	18
		28th	.	.	.	.	.	.	.	07	45	07	55	08	00
			.	.	.	.	.	.	.	09	23	08	11	08	06
		29th	.	.	.	.	.	.	.	..	..	..	..	..	..
		30th	.	.	.	.	.	.	.	08	43	08	55	09	04
			.	.	.	.	.	.	.	08	48	09	00	09	09
		1st	.	.	.	.	.	.	.	07	31	07	43	07	50
			.	.	.	.	.	.	.	07	37	07	45	07	55
		2nd	.	.	.	.	.	.	.	07	42	09	46	09	55
			.	.	.	.	.	.	.	07	45	09	50	09	59
		3rd	.	.	.	.	.	.	.	..	..	..	..	..	..
		4th	.	.	.	.	.	.	.	08	32	10	01	10	10
			.	.	.	.	.	.	.	09	51	10	03	10	17
		5th	.	.	.	.	.	.	.	..	..	..	..	..	..
		6th	.	.	.	.	.	.	.	..	..	..	..	..	..
		7th	.	.	.	.	.	.	.	..	..	..	..	..	..
		8th	.	.	.	.	.	.	.	08	45	08	56	09	02
			.	.	.	.	.	.	.	08	49	08	59	09	14

TABLE VI—*contd.*

Month and date										H-alpha		K-Flocculus		K-Prominence	
										Hour (IST)	Min.	Hour (IST)	Min.	Hour (IST)	Min.
1958	May	8th	.	.	.	.	.	.	.	10 11	30 16			10 11	41 26
		9th	.	.	.	.	.	.	.	10 12	50 31	12	38	12	41
		10th	.	.	.	.	.	.	.	..	..	..	..	..	..
		11th	.	.	.	.	.	.	.	..	..	..	..	..	..
		12th	.	.	.	.	.	.	.	11 11	41 46	11 11	52 54	11 12	57 01
		13th	.	.	.	.	.	.	.	11 11	12 17				
		14th	.	.	.	.	.	.	.	07 08	46 59	07 08	57 05	08 08	09 13
		15th	.	.	.	.	.	.	.	07 08	54 59	08 08	11 13	08 08	22 28
		16th	.	.	.	.	.	.	.	10 10	11 14	10 10	21 23	10 10	37 35
		17th	.	.	.	.	.	.	.	07 08	59 47	08 08	28 30	08 08 08	24 31 42
		18th	.	.	.	.	.	.	.	08 08	03 07	08 08	13 15	08 08	18 25
		19th	.	.	.	.	.	.	.	08 09 11	44 12 18	08 09 11	53 18 20	08 09 11	58 30 37
		20th	.	.	.	.	.	.	.	07 08 11	46 13 59	07 08 12	52 04 04	07 08 12	56 08 09
		21st	.	.	.	.	.	.	.	08 08 11	42 48 33	08 08 11	54 56 37	09 09 09 11	04 10 23 44
		22nd	.	.	.	.	.	.	.	08 08	28 56	08 08	34 36	08 08	43 47
		23rd	.	.	.	.	.	.	.	08 09 11	54 00 56	09 09	07 10	09 09 12	20 34 08
		24th	.	.	.	.	.	.	.	08 08 11	03 28 36	08 08 11	09 21 40	08 08 11	13 18 58
		25th	.	.	.	.	.	.	.	07 07 08	34 38 51	07 07	44 46	07 07	51 55
		26th	.	.	.	.	.	.	.	07 07 11	54 58 13	08 08 11	23 25 16	08 08 11	30 34 19

TABLE VI—*contd.*

Month and date										H-alpha		K-Flocculus		K-Prominence	
										Hour (IST)	Min.	Hour (IST)	Min.	Hour (IST)	Min.
1958															
May	27th									07	32	07	41	07	47
										07	37	07	43	07	56
	28th									07	35	07	46	07	52
										07	39	07	48	07	56
										09	22				
	29th									07	29	07	37	07	45
										07	32	07	41	07	50
	30th									07	35	07	45	07	53
										07	39	07	48	07	57
										09	19	11	35	11	41
	31st									07	32	07	40	07	46
										07	35	07	42	07	53
										11	35	11	43	11	46
June	1st									08	12	08	32	08	36
										08	16	08	34	08	38
										08	25	11	42	11	39
										11	17				
	2nd									07	33	07	45	07	52
										07	38	07	47	07	59
	3rd									08	37	08	46	08	52
										08	39	08	48	08	56
										10	59	11	13	11	10
	4th									07	40	07	52	07	59
										07	44	07	55	08	03
	5th									11	02	11	06	11	13
										11	26	11	08	11	20
	6th									08	53	09	00	09	09
										09	23	09	03	09	14
	7th									08	19	08	34	08	41
										08	26	08	36	08	46
										11	13	11	20	11	25
	8th									13	50	14	00	14	05
										13	53	14	01	14	08
	9th									07	35	07	46	07	54
										07	38	07	48	08	00
										11	12	11	17	11	22
										14	18	14	25	14	29
	10th									07	36	07	47	07	54
										07	41	07	49	07	58
										11	35	11	42	11	46
	11th									07	44	07	52	07	56
										08	09	08	04	08	01
										11	39				

TABLE VI—*concl.*

Month and date		H-alpha		K-Flocculus		K-Prominence	
		Hour (IST)	Min.	Hour (IST)	Min.	Hour (IST)	Min.
1958							
June	12th	08 08 11	02 39 23	08 08 11	08 29 53	08 08 11	13 34 34
	13th	09 09	16 21	09 09	33 35	09 09	39 43
	14th	07 07	35 40	07 07	45 49	07 07	53 57
	15th	..	..	..	..	..	..
	16th	08 09 11	43 01 07	09 09 11	11 13 18	09 .. 11	18 .. 15
	17th	..	..	..	..	..	..
	18th	11 11	31 35	11 11	40 45	12 12	02 07
	19th	07 07 07 08 08 08 09 11	39 44 59 01 03 05 12 39	07 07 07	50 52	08 08 11	15 20 52
	20th	..	..	..	..	..	..
	21st	14 14	18 39	14	24	14	29
	22nd	07 08 14 14	58 01 52 56	08 08	06 08	08 08	12 16
	23rd	..	..	..	..	..	..
	24th	..	..	..	..	..	..
	25th	..	..	..	..	..	..
	26th	07 08	35 02	08 08	08 10	08 08	14 21
	27th	..	..	..	..	..	..
	28th	08 08	25 30	08 08	36 41	08 09	44 01
	29th	..	..	..	..	..	..
	30th	08	55				

TABLE VII
List of Photoheliograms

Month and Date*	Time of Picture (I.S.T.)	Quality of image	Remarks	Month and Date*	Time of Picture (I.S.T.)	Quality of image	Remarks
H. M.				H. M.			
January, 1958—				January, 1958—			
1st	07 47 10 52 14 40	Fair Good Fair	F H H	21st	08 14 11 16	Good Fair	F H
4th	07 51 10 30	Fair Fair	F H	22nd	08 35 10 44 14 40	Poor Poor Poor	F F F
5th	09 33 14 48	Fair Fair	F H	23rd	08 02 10 58	Fair Fair	F H
6th	11 40	Fair	F	24th	07 56 10 32 14 22	Fair Fair Poor	F H H
7th	07 50	Poor	F	25th	12 05 15 17	Fair Poor	F H
8th	08 55 11 13 14 25	Fair Poor Poor	F H H	26th	08 02	Poor	F
9th	08 22 08 41 14 15	Good Fair Fair	F H H	27th	07 46 11 05	Good Good	F H
10th	07 48 10 45 14 35	Good Fair Good	F H H	28th	07 43 10 48	Good Poor	F H
11th	07 48 10 59 14 25	Excellent Excellent Fair	F H H	29th	09 16	Good	F
12th	08 04 10 55 14 18	Excellent Fair Fair	F H H	30th	08 05 10 45	Poor Good	F H
13th	08 15 11 07 14 37	Good Fair Good	F H H	31st	07 50 10 45	Excellent Poor	F H
14th	11 33	Fair	F	February, 1958—			
15th	07 47 11 05 14 22	Good Good Fair	F F H	2nd	08 10 11 02	Good Good	F H
16th	07 48	Excellent	F	3rd	08 30 11 22	Excellent Fair	F H
17th	09 02 10 25	Excellent Good	F H	4th	09 20	Fair	F
18th	07 49 10 55 14 35	Fair Good Fair	F F H	7th	08 12 08 18 11 15 14 35	Good Good Good Poor	F F H H
19th	07 45 11 02 14 35	Good Fair Fair	F H H	9th	07 50 10 37	Good Good	F H
20th	07 50 11 25	Fair Good	F H	10th	08 10 10 47 11 35	Good Good Fair	F H F
				11th	07 45 08 10	Good Good	F F

TABLE VII—*contd.*

Month and Date*	Time of Picture (I.S.T.)	Quality of image	Remarks	Month and Date*	Time of Picture (I.S.T.)	Quality of image	Remarks
February, 1958—	H. M.			March, 1958—	H. M.		
12th	07 46 10 36	Good Good	F H	5th	07 50 10 55 14 35	Excellent Good Good	F H H
13th	07 44 10 50 14 22	Fair Poor Fair	F H H	6th	07 41 10 33	Excellent Good	F H
14th	07 49 08 55	Poor Fair	F F	7th	07 50 10 58	Excellent Fair	F H
15th	07 55 10 55 14 35	Poor Fair Poor	F H H	8th	07 45 11 10 14 20	Excellent Poor Poor	F H H
16th	07 48 10 34	Excellent Excellent	F H	9th	07 40 10 24 14 15	Excellent Fair Poor	F H H
17th	08 25 10 50 14 12	Good Fair Poor	F H H	10th	08 03 10 26 14 36	Good Poor Poor	F H H
18th	07 55	Fair	F	11th	07 40 10 42	Good Fair	F H
19th	10 30	Excellent	F	12th	08 40	Good	F
20th	07 48	Excellent	F	13th	10 00	Good	F
21st	08 05 10 45	Excellent Fair	F H	14th	07 36 10 11 14 20	Excellent Good Poor	F H H
22nd	08 54 10 45 10 54	Good Poor Fair	F H H	15th	07 50	Excellent	F
23rd	07 48	Good	F	16th	14 05	Good	F
24th	08 15	Good	F	17th	07 46 10 48 14 13	Good Excellent Fair	F H H
25th	08 26	Good	F	18th	07 45 10 20 14 40	Good Good Poor	F H H
26th	07 39 10 30	Excellent Poor	F H	19th	08 28 10 58 14 45	Good Poor Poor	F H H
27th	07 50 10 50	Excellent Poor	F H	20th	08 02 10 50 14 22	Excellent Good Fair	F H H
28th	07 56 14 25	Excellent Poor	F H	21st	07 41 11 24 14 25	Excellent Fair Good	F H H
March, 1958—				22nd	07 44 11 30	Excellent Poor	F H
1st	07 45 10 42	Fair Fair	F H	23rd	07 48 10 45	Good Poor	F F
2nd	08 05 10 45	Fair Fair	F H				
3rd	07 55 11 40	Fair Poor	F H				
4th	07 44 11 20	Excellent Fair	F H				

TABLE VII—*contd.*

Month and Date*	Time of Picture (I.S.T.)	Quality of image	Remarks	Month and Date*	Time of Picture (I.S.T.)	Quality of image	Remarks
March, 1958—	H. M.			April, 1958—	H. M.		
24th	07 45 10 52 14 25	Excellent Fair Good	F H H	12th	08 04 10 59	Good Poor	F H
25th	07 39 10 29 14 25	Excellent Fair Fair	F H H	13th	07 54 10 42	Good Good	F H
26th	07 44 11 46	Excellent Good	F H	14th	07 35 10 27	Fair Fair	F H
27th	07 59 11 05	Excellent Good	F H	15th	11 50 11 25	Fair Fair	F F
28th	09 05 11 02 14 32	Excellent Good Fair	F F H	16th	08 08 10 32	Fair Poor	F H
29th	08 30 15 15	Excellent Good	F H	17th	08 05 10 50	Good Fair	F H
30th	08 05 10 55	Excellent Fair	F H	18th	07 36 10 40	Good Good	F H
31st	08 04 14 30	Excellent Good	F H	19th	06 33 06 53 07 08 07 13 07 43 08 12 08 30 08 31 08 51	Good Good Good Good Good Good Good Good Good	F F F F F F F F F Photographs of partial eclipse of Sun
April, 1958—				22nd	07 45 10 31	Good Good	F H
1st	08 55 10 57	Good Fair	F H	23rd	07 26 10 48	Good Fair	F H
2nd	07 49 10 54	Excellent Good	F H	24th	07 51 10 37 14 31	Good Fair Fair	F H H
3rd	10 00	Fair	F	25th	07 59	Good	F
4th	09 55	Good	F	26th	07 38 14 37	Good Good	F H
5th	07 50	Good	F	27th	08 02 16 12	Good Good	F H
6th	08 02 10 58	Excellent Good	F H	28th	08 05 11 09	Good Fair	F H
7th	07 50 10 42	Excellent Good	F H	29th	08 06	Good	F
8th	08 40 11 40	Good Fair	F H	30th	08 45	Good	F
9th	08 05 10 40 14 17	Excellent Fair Fair	F H H	May, 1958—			
10th	07 48 10 27	Good Good	F H	1st	07 42	Good	F
11th	09 40 11 02	Fair Fair	F H	2nd	08 52 09 16	Good Good	F F

TABLE VII—concl'd.

Month and Date*	Time of Picture (I.S.T.)	Quality of image	Remarks	Month and Date*	Time of Picture (I.S.T.)	Quality of image	Remarks
May, 1958—	H. M.			June, 1958—	H. M.		
4th	09 20	Good	F	1st	08 42 11 06	Good Fair	F H
8th	08 54 10 37	Good Good	F H	2nd	08 08 10 56	Good Fair	F H
10th	12 10	Fair	F	3rd	08 45 10 55	Good Fair	F H
12th	11 20	Fair	F	4th	07 53 10 45	Good Fair	F H
14th	07 50 10 38	Fair Good	F H	5th	11 20 10 35	Good Good	F F
15th	08 05 11 18	Fair Fair	F H	6th	09 35	Good	F
16th	10 13	Fair	F	7th	08 11 10 47 10 50	Excellent Good Good	F H H
17th	08 22 10 45	Fair Fair	F H	8th	13 50	Good	F
18th	08 14	Good	F	9th	07 53 11 18 14 10	Excellent Good Good	F H H
19th	08 20 11 00	Good Poor	F H	10th	07 51 10 53 14 14	Excellent Good Poor	F H H
20th	07 58 10 40	Good Fair	F H	11th	08 26 10 50	Good Good	F H
21st	08 00 10 40	Good Fair	F H	12th	08 32 09 35	Good Good	F F
22nd	08 12 11 52	Fair Fair	F H	13th	09 13 11 54	Good Poor	F H
23rd	08 56 11 00	Good Fair	F H	14th	07 52	Good	F
24th	08 28 10 42	Good Good	F H	16th	09 05	Good	F
25th	07 46	Good	F	18th	11 34	Good	F
26th	07 57 11 05	Fair Fair	F H	19th	08 27 10 40	Good Good	F F
27th	07 48 10 41	Good Fair	F H	21st	14 40	Good	F
28th	07 54 10 51	Good Fair	F H	22nd	08 18	Good	F
29th	07 39	Good	F	26th	08 16	Good	F
30th	07 48 10 32	Good Fair	F H	28th	08 30	Good	F
31st	08 00 10 35	Good Fair	F H				

F—Full disc Photograph.

H—Part of the disc containing spot zones.

*Missing dates correspond to days when no photographs could be taken due to bad weather.

TABLE VIII

Sunspot Relative Numbers

Month & Date*		Time (I.S.T.)	Number g of groups	Number f of spots	Image quality classified in 5 grades
January, 1958—		H. M.			
1st	.	07 47	15	100	F
4th	.	07 51	12	118	F
5th	.	09 33	11	96	F
6th	.	11 40	10	68	F
7th	.	07 50	12	97	P
8th	.	08 55	10	96	F
9th	.	08 22	10	103	G
10th	.	07 48	12	125	G
11th	.	07 48	16	172	E
12th	.	08 04	17	240	E
13th	.	08 15	11	135	G
14th	.	11 33	12	106	F
15th	.	07 47	14	187	G
16th	.	07 48	12	180	E
17th	.	09 02	15	157	E
18th	.	07 49	14	84	F
19th	.	07 45	12	93	G
20th	.	07 50	12	113	F
21st	.	08 14	13	104	G
22nd	.	08 35	11	65	P
23rd	.	08 02	11	65	F
24th	.	07 56	10	92	F
25th	.	12 05	11	74	F
26th	.	08 02	12	89	P
27th	.	07 46	12	80	G
28th	.	07 43	12	87	G
29th	.	09 16	8	90	G
30th	.	08 05	8	54	P
31st	.	07 50	10	61	E
February 2nd	.	08 10	8	44	G
3rd	.	08 30	8	53	E

TABLE VIII—*contd.*

Month & Date*										Time (I.S.T.)	Number g of groups	Number f of Spots	Image quality classified in 5 grades
February, 1958—										H. M.			
4th	.	.	.	.	.	.	.	.	.	09 20	7	65	F
7th	.	.	.	.	.	.	.	.	.	08 12	6	124	G
9th	.	.	.	.	.	.	.	.	.	07 50	7	140	G
10th	.	.	.	.	.	.	.	.	.	08 10	5	85	G
11th	.	.	.	.	.	.	.	.	.	07 45	7	87	G
12th	.	.	.	.	.	.	.	.	.	07 46	6	72	G
13th	.	.	.	.	.	.	.	.	.	07 44	7	65	F
14th	.	.	.	.	.	.	.	.	.	07 49	8	64	P
15th	.	*	.	.	.	.	.	.	.	07 55	9	38	P
16th	.	.	.	.	.	.	.	.	.	07 48	9	41	E
17th	.	.	.	.	.	.	.	.	.	08 25	10	36	G
18th	.	.	.	.	.	.	.	.	.	07 55	10	39	F
19th	.	.	.	.	.	.	.	.	.	10 30	8	33	E
20th	.	.	.	.	.	.	.	.	.	07 48	9	37	E
21st	.	.	.	.	.	.	.	.	.	08 05	9	70	E
22nd	.	.	.	.	.	.	.	.	.	08 54	8	70	G
23rd	.	.	.	.	.	.	.	.	.	07 48	9	80	G
24th	.	.	.	.	.	.	.	.	.	08 15	7	76	G
25th	.	.	.	.	.	.	.	.	.	08 26	9	60	G
26th	.	.	.	.	.	.	.	.	.	07 39	9	72	E
27th	.	.	.	.	.	.	.	.	.	07 50	8	72	E
28th	.	.	.	.	.	.	.	.	.	07 56	6	55	E
March 1st	.	.	.	.	.	.	.	.	.	07 45	5	53	F
2nd	.	.	.	.	.	.	.	.	.	08 05	4	53	F
3rd	.	.	.	.	.	.	.	.	.	07 55	6	74	F
4th	.	.	.	.	.	.	.	.	.	07 44	7	101	E
5th	.	.	.	.	.	.	.	.	.	07 50	7	119	E
6th	.	.	.	.	.	.	.	.	.	07 41	6	109	E
7th	.	.	.	.	.	.	.	.	.	07 50	8	145	E
8th	.	.	.	.	.	.	.	.	.	07 45	7	97	E
9th	.	.	.	.	.	.	.	.	.	07 40	7	150	E
10th	.	.	.	.	.	.	.	.	.	08 03	8	129	G

TABLE VIII—*contd.*

Month & Date*										Time (I.S.T.)	Number g of groups	Number f of Spots	Image quality classified in 5 grades
March, 1958—										H. M.			
	11th	.	.	.	.	.	.	.	.	07 40	8	105	G
	12th	.	.	.	.	.	.	.	.	08 40	6	94	G
	13th	.	.	.	.	.	.	.	.	10 00	7	118	G
	14th	.	.	.	.	.	.	.	.	07 36	6	125	E
	15th	.	.	.	.	.	.	.	.	07 50	7	82	E
	16th	.	.	.	.	.	.	.	.	14 05	9	105	G
	17th	.	.	.	.	.	.	.	.	07 46	9	80	G
	18th	.	.	.	.	.	.	.	.	07 45	10	95	G
	19th	.	.	.	.	.	.	.	.	08 28	9	89	G
	20th	.	.	.	.	.	.	.	.	08 02	8	74	E
	21st	.	.	.	.	.	.	.	.	07 41	7	73	E
	22nd	.	.	.	.	.	.	.	.	07 44	7	104	E
	23rd	.	.	.	.	.	.	.	.	07 48	9	137	G
	24th	.	.	.	.	.	.	.	.	07 45	12	96	E
	25th	.	.	.	.	.	.	.	.	07 39	10	112	E
	26th	.	.	.	.	.	.	.	.	07 44	9	132	E
	27th	.	.	.	.	.	.	.	.	07 59	9	239	E
	28th	.	.	.	.	.	.	.	.	09 05	10	168	E
	29th	.	.	.	.	.	.	.	.	08 30	10	222	E
	30th	.	.	.	.	.	.	.	.	08 05	12	220	E
	31st	.	.	.	.	.	.	.	.	08 04	13	175	E
April	1st	.	.	.	.	.	.	.	.	08 55	14	185	G
	2nd	.	.	.	.	.	.	.	.	07 49	13	226	E
	3rd	.	.	.	.	.	.	.	.	10 00	15	142	F
	4th	.	.	.	.	.	.	.	.	09 55	15	158	G
	5th	.	.	.	.	.	.	.	.	07 50	15	179	G
	6th	.	.	.	.	.	.	.	.	08 02	16	177	E
	7th	.	.	.	.	.	.	.	.	07 50	16	157	E
	8th	.	.	.	.	.	.	.	.	08 40	15	152	G
	9th	.	.	.	.	.	.	.	.	08 05	14	134	E
	10th	.	.	.	.	.	.	.	.	07 48	11	140	G
	11th	.	.	.	.	.	.	.	.	09 40	11	54	F

TABLE VIII—contd.

Month & Date*										Time (I.S.T.)	Number g of groups	Number f of Spots	Image quality classified in 5 grades
										H. M.			
April, 1958—													
	12th	.	.	.	.	.	.	.	.	08 04	7	77	G
	13th	.	.	.	.	.	.	.	.	07 54	8	49	G
	14th	.	.	.	.	.	.	.	.	07 35	7	38	F
	15th	.	.	.	.	.	.	.	.	11 50	8	26	F
	16th	.	.	.	.	.	.	.	.	08 08	7	58	F
	17th	.	.	.	.	.	.	.	.	08 05	10	64	G
	18th	.	.	.	.	.	.	.	.	07 36	9	86	G
	19th	.	.	.	.	.	.	.	.	08 51	11	86	G
	22nd	.	.	.	.	.	.	.	.	07 45	10	102	G
	23rd	.	.	.	.	.	.	.	.	07 26	12	109	G
	24th	.	.	.	.	.	.	.	.	07 51	13	122	G
	25th	.	.	.	.	.	.	.	.	07 59	11	105	G
	26th	.	.	.	.	.	.	.	.	07 38	9	69	G
	27th	.	.	.	.	.	.	.	.	08 02	12	57	G
	28th	.	.	.	.	.	.	.	.	08 05	11	80	G
	29th	.	.	.	.	.	.	.	.	08 06	9	98	G
	30th	.	.	.	.	.	.	.	.	08 45	9	69	G
May													
	1st	.	.	.	.	.	.	.	.	07 42	11	112	G
	2nd	.	.	.	.	.	.	.	.	08 52	13	129	G
	4th	.	.	.	.	.	.	.	.	09 20	14	133	G
	8th	.	.	.	.	.	.	.	.	08 54	10	52	G
	10th	.	.	.	.	.	.	.	.	12 10	10	66	F
	12th	.	.	.	.	.	.	.	.	11 20	8	25	F
	14th	.	.	.	.	.	.	.	.	07 50	7	56	F
	15th	.	.	.	.	.	.	.	.	08 05	6	30	F
	16th	.	.	.	.	.	.	.	.	10 13	6	37	F
	17th	.	.	.	.	.	.	.	.	08 22	6	52	F
	18th	.	.	.	.	.	.	.	.	08 14	5	39	G
	19th	.	.	.	.	.	.	.	.	08 20	9	68	G
	20th	.	.	.	.	.	.	.	.	07 58	9	54	G
	21st	.	.	.	.	.	.	.	.	08 00	10	71	G
	22nd	.	.	.	.	.	.	.	.	08 12	11	54	F

TABLE VIII—*concl.*

Month & Date*										Time (I.S.T.)	Number g of groups	Number f of Spots	Image quality classified in 5 grades
										H. M.			
May 1958—													
	23rd	.	.	.	.	.	.	.	.	08 56	12	82	G
	24th	.	.	.	.	.	.	.	.	08 28	13	58	G
	25th	.	.	.	.	.	.	.	.	07 46	12	51	G
	26th	.	.	.	.	.	.	.	.	07 57	11	68	F
	27th	.	.	.	.	.	.	.	.	07 48	12	41	G
	28th	.	.	.	.	.	.	.	.	07 54	12	40	G
	29th	.	.	.	.	.	.	.	.	07 39	14	56	G
	30th	.	.	.	.	.	.	.	.	07 48	13	103	G
	31st	.	.	.	.	.	.	.	.	08 00	11	68	G
June													
	1st	.	.	.	.	.	.	.	.	08 42	11	58	G
	2nd	.	.	.	.	.	.	.	.	08 08	11	57	G
	3rd	.	.	.	.	.	.	.	.	08 45	11	75	G
	4th	.	.	.	.	.	.	.	.	07 53	13	86	G
	5th	.	.	.	.	.	.	.	.	11 20	14	89	G
	6th	.	.	.	.	.	.	.	.	09 35	12	77	G
	7th	.	.	.	.	.	.	.	.	08 11	11	121	E
	8th	.	.	.	.	.	.	.	.	13 50	9	129	G
	9th	.	.	.	.	.	.	.	.	07 53	9	149	E
	10th	.	.	.	.	.	.	.	.	07 51	11	147	E
	11th	.	.	.	.	.	.	.	.	08 26	11	130	G
	12th	.	.	.	.	.	.	.	.	08 32	11	121	G
	13th	.	.	.	.	.	.	.	.	09 13	11	71	G
	14th	.	.	.	.	.	.	.	.	07 52	8	119	G
	16th	.	.	.	.	.	.	.	.	09 05	7	34	G
	18th	.	.	.	.	.	.	.	.	11 34	6	26	G
	19th	.	.	.	.	.	.	.	.	08 27	6	52	G
	21st	.	.	.	.	.	.	.	.	14 40	7	51	G
	22nd	.	.	.	.	.	.	.	.	08 18	8	57	G
	26th	.	.	.	.	.	.	.	.	08 16	11	153	G
	28th	.	.	.	.	.	.	.	.	08 30	8	123	G

*Missing dates correspond to days when no photographs could be taken due to unfavourable weather.

TABLE IX

Positions and classifications of sunspot groups

Year : 1958	Time I.S.T.	Image quality	(Heliographic latitude) in degrees	(Heliographic longitude) in degrees	Type	number of single spots
Date						
1	2	3	4	5	6	7
	H. M.					
January 1	07 47	3	+25 -20 +13 -03 -24 -10 +17 -13 +18 -18 -06 +23 +10 +30 -17	238 227 218 209 183 178 169 159 123 113 110 157 79 90 76	J B J A D H H B D B A A C C B	04 03 05 01 23 04 04 04 14 14 03 06 09 03 03
January 2	07 51	3	-24 -09 +17 -13 +19 -23 +04 +27 -18 +12 -18 -31	182 178 163 154 122 112 91 90 74 74 42 35	D J J A E E J A A E A A	20 01 01 08 28 14 02 08 06 27 02 01
January 5	07 54	3	-23 -11 +16 +17 -23 +05 +31 -18 +12 -15 -29	183 175 171 120 110 91 87 88 71 28 35	H J J D C C B C C E D C	03 02 01 11 10 08 02 05 46 15 03
January 6	11 40	3	+17 +17 -23 +05 +33 -18 +12 -19 -30 -13	174 122 110 90 87 76 74 36 37 23	J H C B B B C D D D C D	02 04 06 03 03 02 25 04 03 16
January 7	07 50	4	+18 -22 +05 +34	127 112 88 87	H B B A	04 06 04 02

TABLE IX—contd.

1	2	3	4	5	6	7
	H. M.					
			—17 +13 —18 —30 —12 +14 +26 —40	79 76 37 36 24 45 07 64	B E D B D A J A	08 41 08 07 14 01 01 01
January 8	08 55	3	+15 —23 +04 —18 +13 —39 —29 —18 —13 +24	123 107 92 75 76 60 35 35 20 08	J B B J E C C C E J	03 02 02 02 34 07 11 13 21 01
January 9	08 22	2	+03 —19 +13 —17 —29 —14 +25 —39 +24 —19	94 77 77 36 34 17 08 56 346 326	A A E G H E J G B A	01 01 19 16 11 33 02 09 10 01
January 10	07 48	2	+03 —18 +17 —18 —28 —14 +25 —38 +26 —23 —20 —13	95 75 76 33 33 18 04 55 342 331 355 345	A A E E E F H D E C B A	01 01 21 17 14 37 03 15 12 01 02 01
January 11	07 48	1	—20 +13 —17 —28 —14 +24 —39 +26 —23 —22 —13 +33 +23 +13 —08 +12	75 76 39 36 21 08 55 342 332 355 345 50 47 26 320 305	B G D D E H C E C B A A A A C C	02 08 16 19 61 02 09 21 02 08 01 02 01 02 06 02
January 12	08 04	1	—13 +10 —18 —29	74 75 37 34	B J C C	06 09 18 17

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
			—13 +05 —39 +25 —23 —22 —13 +33 +23 +12 —07 +12 +15	20 04 53 344 331 354 344 48 46 21 316 304 326	E H B F D C A A A A E E A	53 04 09 46 07 19 04 03 06 03 19 13 04
January 13	08 15	2	+23 —17 —29 —13 +25 —21 +23 —24 +14 —06 +13	47 37 36 21 03 352 344 329 323 311 299	B J H F J A E C A E F	02 03 09 44 02 03 31 02 05 22 12
January 14	11 33	3	—18 —29 —15 +24 +23 —22 —24 —09 +13 +12 —16 +23	35 32 18 05 341 351 330 315 300 327 331 276	B J E H D A J D E B A A	02 02 42 03 20 01 02 14 16 02 01 01
January 15	07 47	2	—19 —30 —14 +23 +25 —24 —24 —09 +12 +14 —15 +23 +21 —14	35 35 21 07 342 328 349 316 302 327 331 283 261 261	A H C H E J B D F B A A C B	01 04 54 03 36 03 09 27 37 02 02 01 04 04
January 16	07 48	1	—28 —15 +23 +24 —25 —22 —10 +12 +13 +22 +19 +13	44 19 05 342 331 351 316 302 327 283 263 264	A E H F H B E F A A C B	03 33 03 38 03 12 32 41 04 02 07 02

TABLE IX—contd.

1	2	3	4	5	6	7
	H. M.					
January 17	08 02	1	-13 +23 -23 +24 -24 +12 -09 +13 +21 -16 +21 +05 -17 -12 -20	15 04 351 328 329 321 311 296 278 260 238 240 240 231 225	E J D D J A E F A A E A A A A	20 01 14 19 02 07 31 39 02 01 15 01 01 03 01
January 18	07 49	3	-17 +24 +27 -24 -25 -10 +13 +20 +25 -15 +04 -17 -13 -20	30 18 341 02 341 323 313 272 245 273 257 254 242 234	J J H D J D F G D A A A A A	01 02 04 06 02 15 27 04 14 01 01 02 03 02
January 19	07 45	2	+27 -24 -22 -09 +13 +19 +03 -18 -13 -22 +25 +30	328 328 354 310 306 259 242 242 232 223 229 244	J J J D F H A A B C E B	03 03 04 15 24 08 03 02 05 03 20 03
January 20	07 50	3	+29 -22 -08 +13 +21 +03 -13 -22 +25 +33 -24 -12	330 330 311 300 259 243 231 223 229 249 270 261	J J C F H A A B E A A A	04 03 13 20 05 03 08 02 36 13 03 03
January 21	08 14	2	+30 -22 -08 -25 +23 +12 +33 +23	328 328 323 269 258 302 252 236	J J J B H F B E	01 01 05 10 08 12 11 35

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
			—12 —20 +28 —09 —18	231 223 215 182 185	B H H H J	10 01 06 01 03
January 22	08 35	4	+12 +22 +23 +33 —24 —19 —12 +28 —08 —18 +18	302 257 237 253 267 222 229 210 181 188 169	F J D C E J B C A C A	04 01 26 09 11 01 04 02 01 05 01
January 23	08 02	3	+11 +20 +23 +33 —25 —12 —22 +27 —10 —17 +17	303 255 237 250 269 228 221 211 182 189 161	J J C B D A J C J C J	02 01 20 05 14 02 01 07 01 09 03
January 24	07 56	3	+22 +25 +37 —23 —10 —20 +28 —07 —16 +19	256 236 246 269 227 223 215 184 189 164	J C B D A A B J D B	01 30 05 23 02 01 06 01 21 02
January 25	12 05	3	—25 +22 +25 +29 —19 —18 —08 +17 +21 —28 —09	271 258 238 212 222 189 182 163 133 169 156	E H G H J D H H J B B	12 04 03 02 01 36 02 02 02 03 07
January 26	08 02	4	+23 —19 +27 —19 +28 —08 —18 +18 +22 —08 —27 +19	253 223 228 268 211 183 187 165 133 162 170 118	E A A G A A F H C E H A	07 02 01 05 02 01 41 02 11 14 02 01

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
January 27	07 46	2	+23 +27 +28 —08 —18 +18 +22 —10 —26 +19 —12 —26	251 223 209 181 188 187 216 156 163 160 172 99	J A A A E C D D B J A A	05 01 02 02 21 02 14 19 06 02 03 03
January 28	07 43	2	+28 —30 —07 —17 +19 +22 —09 —27 +20 —11 —26 —18	224 219 184 189 163 130 158 164 111 175 99 221	A B A E C D D B C A A A	01 02 02 39 06 24 25 05 04 02 04 03
January 29	09 16	2	+25 —13 —09 —10 +18 +22 +19 —27	212 188 183 159 163 132 111 92	A E J D J E H B	01 18 01 33 02 25 04 06
January 30	09 16	4	—10 —21 +16 +21 —12 +18 —28 +22	181 186 162 132 158 111 95 152	J G C E D H B C	01 08 02 13 15 06 04 05
January 31	08 05	1	—08 —18 +17 +22 —10 +18 —28 +25 —05 +28	181 184 159 131 157 109 95 151 108 41	A C A D D H C B B A	01 03 01 10 20 05 08 03 08 02
February 2	08 10	2	—12 —32 +20 +17 —06 +25 —14 —14	159 152 132 113 110 49 37 13	B A D D E J E G	05 01 03 04 16 03 11 01

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
February 3	08 30	1	+22 +19 -07 +26 -13 -16 -32 +08	125 110 109 45 37 09 151 63	J C E C E G A D	01 02 17 02 15 07 01 08
February 4	09 20	3	+22 +19 -07 +24 -14 -16 +08	125 110 109 45 48 09 63	J C H B E E C	03 04 06 04 23 19 06
February 7	08 12	2	+24 -12 -16 +09 +20 +26	49 42 04 69 16 350	D E E B C B	02 42 64 04 03 09
February 9	07 50	2	-12 -16 +08 +18 +24 +16 -19	50 05 66 19 349 311 264	E F B B B E C	42 69 02 08 05 12 02
February 10	08 10	2	-12 +18 -18 +24 +13	46 17 05 346 307	E B E D G	19 01 53 08 04
February 11	07 45	2	-14 -18 +20 +24 +13 +09 -24	46 04 20 346 318 324 262	H E B D G C A	05 43 02 08 14 14 01
February 12	07 46	2	-18 +26 +12 +08 -23 +23	08 352 308 320 263 253	E J E J A J	33 10 18 09 01 01
February 13	07 44	3	-18 +25 +12 +08 -24 +23 +08	08 352 307 326 263 252 235	E J F B A J A	20 02 07 09 02 01 04
February 14	07 49	4	-20 +24 +13 +08	05 355 311 326	E J F B	13 02 27 10

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
			—25	262	A	02
			+24	253	J	02
			+08	241	D	06
			+14	274	A	02
February 15	07 55	4	—20	01	D	03
			+23	356	J	01
			+12	311	F	15
			+09	327	D	05
			+23	251	A	01
			+06	240	D	04
			+13	277	B	05
			—14	213	A	02
			+19	214	B	02
February 16	07 48	1	—18	351	A	03
			+10	304	E	09
			+08	327	A	06
			+22	250	J	01
			+05	241	J	04
			+12	274	A	05
			—16	198	A	06
			+19	213	A	04
			+21	306	A	03
February 17	08 25	2	+09	304	E	09
			+07	328	A	03
			+22	249	J	01
			+04	243	J	04
			+12	274	A	03
			—17	197	G	06
			+18	211	A	04
			+19	302	A	01
			—25	179	J	01
			—15	244	B	04
February 18	07 55	3	+12	311	E	08
			+23	250	J	01
			+05	240	J	04
			+13	277	A	03
			—15	202	C	08
			+21	210	A	03
			+19	299	A	02
			—24	182	J	02
			—13	245	B	04
			—13	174	B	04
February 19	10 30	1	+09	305	H	08
			+22	245	J	01
			+08	243	H	05
			—15	201	E	06
			+22	208	B	03
			—25	177	J	01
			—15	244	H	04
			—13	169	D	05
February 20	07 48	1	+23	251	J	01
			+07	245	B	06
			—15	200	E	11
			—24	177	J	01
			—15	251	A	04
			—12	168	D	08
			+14	190	A	01
			+21	196	A	01
			—04	214	A	04

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
February 21	08 05	1	+22 +07 -15 -24 -16 -13 +12 -04 -09	246 243 196 177 249 168 188 217 82	J B E J A C B B A	02 04 26 01 01 13 08 14 01
February 22	08 54	2	+21 +06 -16 -24 -13 +13 -06 -09	247 243 198 177 165 188 216 184	J B E J D C D A	07 02 27 01 14 04 14 01
February 23	07 48	2	+23 +03 -18 -25 -12 +13 -04 -10 +31	253 253 186 175 166 188 214 183 108	J A E J D A B A J	02 01 36 01 26 03 09 01 01
February 24	08 15	2	-18 -25 -12 -05 -08 +30 -15	196 176 168 214 183 109 148	E H D B A G B	29 09 17 04 01 08 08
February 25	08 26	2	-18 -25 -11 -05 -09 +31 -14 -24 -33	196 179 170 217 184 110 148 84 143	F D D C A C D B C	18 04 04 04 01 04 19 03 03
February 26	07 39	1	-20 -27 -12 -08 -10 +30 -15 -23 -35	192 174 167 219 181 107 131 79 138	F J J B A E G B B	20 07 03 03 03 11 17 04 04
February 27	07 50	1	-20 -25 -12 +30 -15 -24 -35 +05	192 176 172 108 149 80 140 74	E J J D E B B A	19 05 03 14 21 04 04 02

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
February 28	07 56	1	—18 —25 +31 —14 —34 —16	187 174 105 149 139 39	H B C F J B	05 03 17 27 01 02
March 1	07 45	3	—11 +31 —16 —15 —23	174 104 149 19 96	A B E F A	02 16 18 10 07
March 2	08 05	3	+31 —16 —16 —23	106 149 19 96	B D E C	12 14 18 09
March 3	07 55	3	+30 —15 —15 —23 +30 +23	108 148 19 96 26 08	A B F E D B	01 05 28 25 12 03
March 4	07 44	1	—17 —24 +23 +20 +33 —18 —15	17 96 33 01 20 116 97	F E B B B B B	39 23 11 08 10 04 06
March 5	07 50	1	—16 —24 +14 +22 +33 —14 —12	16 97 33 01 19 117 95	E D D B D A H	55 13 18 08 11 02 12
March 6	07 41	1	—18 —23 +22 +20 +32 —13	16 95 32 01 18 90	E B E B E G	67 05 14 06 11 06
March 7	07 50	1	—17 —23 +25 +20 +33 —13 —18 +12	16 95 32 01 19 90 357 305	F H E B E Q A J	73 03 23 06 20 10 04 06
March 8	07 45	1	—17 +23 +18 +32 —14 +12 —28	16 32 02 19 87 307 334	F E B D B G A	43 18 02 19 04 10 01

TABLE IX—*contd.*

1	2	3	4	5	6	7
March 9	H. M. 07 40	1	—18 +24 +14 +33 +11 +20 +18	16 34 06 19 312 320 289	F H A E G A B	68 16 01 30 22 01 12
March 10	08 03	2	—18 +24 +16 +32 +13 +22 +16 +22	17 40 08 14 314 321 296 352	F J A F G A C A	44 07 01 23 27 05 16 06
March 11	07 40	2	—18 +23 +15 +32 +13 +22 +15 +22	16 33 09 14 311 320 296 353	E J A E E B F A	21 03 01 24 28 04 20 04
March 12	07 50	2	—18 +32 +13 +14 +22 +16	15 14 310 296 355 235	D H E E B B	15 14 40 14 08 03
March 13	10 00	2	+32 —17 +21 +12 +13 +14 +12	14 14 357 314 296 246 230	H D C E E J E	05 05 10 42 44 02 10
March 14	07 36	1	+12 +14 +18 +17 +13 —12 +36	314 295 358 243 228 311 218	D F B J D A A	29 45 05 05 22 18 01
March 15	07 50	1	+12 +14 +16 +13 —13 +36 —23	314 296 247 231 311 213 203	D F J D B J A	12 41 02 16 07 03 01
March 16	14 05	2	+10 +14 —14 +15 +12 +36 —24 +18 —16	310 297 311 248 228 214 202 201 184	H F B J E G A A J	05 48 03 02 36 08 01 01 01

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
March 17	07 46	2	+12 +13 +16 +14 -14 +37 -23 -16 +27	311 299 248 232 319 214 202 182 174	J F J E B J A J J	01 29 01 32 03 09 01 11 03
March 18	07 45	2	+13 +14 +13 -14 +36 -23 -16 +21 -13 +09	298 243 229 315 213 201 182 177 200 165	E A D A C B J C A A	28 01 45 01 07 02 01 08 01 01
March 19	07 58	2	+13 +15 +12 +36 -23 -16 +21 +09 +24	298 247 230 214 202 182 176 165 157	E J D H A J E J A	15 01 39 09 01 01 21 01 01
March 20	08 02	1	+15 +13 +36 -24 -18 +21 +07 +24	247 230 212 201 182 175 163 154	A D H A J F J B	01 29 10 01 01 23 01 08
March 21	07 41	1	+14 +36 -17 +22 +08 +24 +19	231 210 180 176 162 149 121	D H J E J D J	33 06 01 14 01 14 04
March 22	07 44	1	+14 +35 -17 +22 +08 +24 +18	232 210 181 176 163 150 122	C H J E J E J	35 06 01 32 04 22 05
March 23	07 48	2	+14 +35 -17 +20 +08 +24 +18 -11 -12	232 208 180 173 163 149 120 196 93	D G J F J E J B F	18 04 01 43 02 39 07 08 15

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
March 24	07 45	2	+10 +35 -17 +20 +08 +24 +18 -10 -12 -06 -20 +22	232 209 180 174 163 152 121 199 93 109 78 95	J J J F J E J B F A G B	02 04 01 26 04 24 05 03 16 02 05 04
March 25	07 39	1	+34 -17 +21 +08 +23 +18 -12 -08 -22 +18	208 180 175 165 150 116 88 110 68 100	J J E J E J F J G A	04 01 30 02 29 06 19 05 12 04
March 26	07 44	1	-17 +21 +08 +23 +19 -12 -08 -22 +19	178 173 164 150 120 90 110 72 98	J E J D J F B E A	02 28 01 27 01 30 16 24 03
March 27	07 59	1	+21 +09 +24 +19 -06 -12 -22 +19 -17	174 161 150 119 112 91 72 99 40	E J E J D F F A F	26 01 29 05 39 91 32 13 03
March 28	09 05	1	+22 +10 +24 +20 -13 -05 -21 +18 -17 +23	173 167 151 120 90 113 72 99 39 28	J J F J F D F B F H	09 01 15 04 63 20 29 10 15 02
March 29	08 30	1	+08 +23 +20 -12 -06 -23 +17 -18 +24 +08	164 145 119 91 117 73 97 35 31 88	A J J F E E B G J A	01 20 01 64 39 40 17 25 67 9

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
March 30	08 05	1	+23 +18 -12 -06 -23 +18 -17 +24 +07 -17 +30 +20	144 117 91 115 73 98 35 31 89 12 09 02	B J F G F B E J A B B A	04 01 70 24 33 13 25 05 05 07 11 02
March 31	08 04	1	+22 +18 -06 +19 -10 -23 +05 -17 -16 +24 +33 +19 -18	142 116 115 99 88 73 41 34 17 31 09 04 358	B J G B F F A F J H E B D	142 116 115 08 62 42 10 32 02 01 17 03 14
April 1	08 55	2	+20 -10 -06 -23 +22 -17 +24 -16 +33 +19 -18 +06 +28 +12	120 90 118 73 104 35 32 17 06 06 02 42 336 334	J F J F B F J H E B D B A A	01 46 09 32 02 29 05 02 24 05 12 15 02 01
April 2	07 49	1	-10 -11 -24 -18 +24 -17 +28 +18 -17 +07 +28 +12 -27	88 117 72 33 30 13 02 359 03 42 327 329 317	E A E G J J E A H J A A A	58 05 28 38 01 05 30 08 28 12 03 05 05
April 3	10 00	3	-10 -23 -16 +25 -14 +33 +21 -15	87 69 32 27 14 05 358 04	E D G J B F B G	21 19 14 01 04 31 05 20

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
			+07	41	J	05
			+27	338	J	01
			+13	331	B	06
			-23	321	A	01
			+19	14	A	01
			-24	16	B	10
			+09	301	J	03
April 4	09 55	2	-10	92	E	03
			-23	72	D	11
			-17	36	G	16
			+23	28	G	01
			+16	16	B	02
			+30	04	E	27
			+16	359	A	10
			-17	05	F	24
			+07	41	D	07
			+27	340	A	06
			+13	335	C	18
			-24	318	B	07
			-26	19	D	12
			+12	300	F	13
			+06	294	J	01
April 5	07 50	2	-23	73	J	06
			-17	36	G	12
			+24	28	G	01
			-17	15	B	02
			+32	05	E	35
			+19	359	B	07
			-17	06	E	26
			+07	43	B	06
			+26	341	A	06
			+13	336	B	11
			-24	320	B	05
			-26	20	B	08
			+12	301	E	38
			+06	296	A	02
			+14	320	B	14
April 6	08 02	1	-20	35	G	08
			+24	28	J	01
			-17	16	B	02
			+32	05	E	41
			+20	360	B	05
			-17	06	D	18
			+07	47	J	03
			+27	340	A	07
			+12	337	B	05
			-24	326	A	01
			+26	20	B	04
			+12	305	E	44
			+06	297	A	02
			+14	320	D	23
			-14	305	B	06
			+23	351	B	07
April 7	07 50	1	-17	34	J	07
			+25	25	J	03
			+30	04	E	27
			+20	355	A	03
			-18	04	G	06
			+07	45	J	02
			+08	328	A	04
			-23	321	A	01

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
			—26	15	B	08
			+14	300	E	44
			+07	296	A	03
			+14	316	E	35
			—14	304	B	04
			+24	346	B	08
			+14	293	A	01
			+43	278	A	01
April	08 40	2	—17	34	H	01
			+25	27	H	01
			+31	05	E	32
			+20	359	A	11
			—18	05	D	04
			+08	336	A	06
			—26	18	B	02
			+24	352	J	03
			+15	319	E	46
			+12	303	E	34
			+05	292	A	05
			—15	306	A	01
			+40	291	A	01
			+43	278	A	01
			+11	242	A	04
April 9	08 05	1	+25	31	J	01
			+31	03	D	12
			+19	359	J	11
			—18	09	D	06
			+08	338	A	02
			—26	19	A	02
			+12	303	E	36
			+12	319	E	44
			—15	306	A	07
			+23	350	A	01
			+41	292	A	01
			+43	278	A	01
			+15	239	B	09
			—16	258	A	01
April 10	07 48	2	+33	09	J	06
			+22	357	G	14
			—18	12	J	02
			+13	339	A	03
			+11	302	E	35
			+14	317	G	35
			—17	302	B	15
			+12	233	B	16
			—14	255	B	11
			—13	280	A	02
			—05	215	A	01
April 11	09 40	3	+21	351	J	01
			+12	340	A	01
			+11	301	E	12
			+15	319	G	12
			—16	304	B	05
			+14	235	A	03
			—15	257	B	08
			—14	284	B	03
			—06	219	J	04
			+25	338	A	01
			—23	258	B	04

TABLE IX—cont'd.

1	2	3	4	5	6	7
April 12	H. M. 08 04	2	+28 +15 +13 -15 -15 -23 -06	330 318 300 303 257 258 219	A G E B B B J	02 24 29 05 10 05 02
April 13	07 54	2	+13 +16 -15 -04 -22 +15 +12 -17	299 321 255 217 255 236 249 218	E J B J B A A A	16 11 04 01 07 04 05 01
April 14	07 35	3	+14 -05 -14 +27 -28 +39 +20	297 216 216 290 252 189 179	E A A A A A A	08 03 08 09 02 03 05
April 15	11 50	3	+13 -05 -14 +25 +18 -10 -22 +40	295 214 214 292 174 256 151 154	H A A B B G E A	02 01 02 05 03 06 06 01
April 16	08 08	3	+13 -11 -05 -16 +13 -21 +39	291 255 208 208 174 147 149	H C A A C E H	04 09 01 01 17 25 01
April 17	08 05	2	+17 -10 -22 +37 +13 +19 +07 +41 +15 -17	173 255 149 152 242 222 225 185 119 124	B B E J B A B A A A	11 06 27 01 05 03 05 02 02 02
April 18	07 36	2	+18 -08 -23 +38 +12 +20 +12 -08 +23	173 253 148 150 239 223 118 129 148	C B F A B B J A A	16 07 43 01 06 04 04 02 03
April 19	08 51	2	+17 -23	174 148	B F	16 35

TABLE IX—*contd.*

1	2	3	4	5	6	7
	h. m.					
			+38	149	A	03
			+13	243	B	02
			+12	120	J	06
			-08	128	A	01
			+22	149	A	01
			+34	177	B	10
			-14	186	B	04
April 22	07 45	2	+17	175	B	16
			-22	146	E	30
			+37	146	J	03
			+12	118	H	16
			+23	147	B	08
			-08	95	A	02
			-13	83	A	04
			+08	81	A	18
			+15	63	J	02
			+11	61	A	03
April 23	07 26	2	+17	175	B	07
			-23	147	F	39
			+36	145	A	01
			+12	117	D	13
			+23	147	B	05
			-07	97	B	07
			-13	83	B	10
			+08	81	D	19
			+15	66	J	04
			+03	62	A	01
			+13	153	A	02
			-18	40	J	01
April 24	07 51	2	+17	173	B	04
			-22	144	F	36
			+24	147	B	03
			-10	122	B	03
			+13	117	D	13
			-25	109	A	01
			-07	96	B	09
			-12	82	B	09
			+09	81	C	33
			+16	64	H	06
			+08	61	A	01
			+11	45	A	03
			-16	36	H	01
April 25	07 50	2	-23	143	G	27
			+11	118	J	07
			+26	148	A	03
			-07	99	B	08
			-11	82	B	05
			+09	81	D	41
			+14	66	H	06
			-18	37	H	03
			-10	124	A	02
			-24	110	A	01
			+13	09	A	02
April 26	07 38	2	-22	151	E	17
			+12	118	J	08
			-05	99	A	08
			+12	79	E	29
			+17	64	J	03
			-16	38	J	01
			+28	16	J	01

TABLE IX—contd.

1	2	3	4	5	6	7
	h. m.					
April 27	08 02	2	+17	06	J	01
			-17	06	J	01
			-22	147	J	02
			+12	117	J	04
			-05	98	A	02
			+12	79	E	21
			+15	63	C	03
			-16	35	J	01
			+27	15	A	01
			+16	05	D	11
			-17	02	B	04
			-22	87	A	02
			+13	47	A	04
			+24	33	A	01
April 28	08 05	2	+12	119	J	02
			+12	18	E	24
			+16	65	J	03
			-17	36	H	01
			+26	13	A	01
			+16	04	E	17
			-18	06	A	01
			-19	19	A	02
			+19	36	A	02
			-26	10	B	07
			-17	343	B	20
			+12	121	J	02
			+11	81	E	15
			+16	63	J	01
April 29	08 06	2	-17	34	J	01
			+26	11	J	01
			+16	01	E	01
			-17	04	J	27
			-25	08	A	04
			-17	345	E	12
			+11	75	D	35
			+15	62	J	04
			-16	35	J	01
			+27	11	J	01
			+17	02	E	01
			-18	03	J	12
			-25	08	B	05
			-17	344	F	09
April 30	08 45	2	-24	30	A	35
			+13	80	D	01
			+17	68	J	04
			-14	39	H	01
			+29	14	J	01
			+19	05	J	01
			-17	05	E	30
			-22	13	J	03
			-15	348	A	08
			+25	41	F	55
			+25	300	A	05
			+11	302	J	01
			+13	78	D	01
			+16	65	J	03
May 1	07 42	2	-16	35	H	01
			+24	35	B	02
			+28	27	B	03
						04
						04
May 2	09 45	2				

TABLE IX—*contd.*

1	2	3	4	5	6	7
	h. m.					
			—25 +27 —17 +16 +21 —15 +24 +09	14 11 04 05 349 345 293 298	B J J E B F G J	02 02 04 27 08 67 05 01
May 4	09 20	2	—18 +27 +17 —18 —27 —16 +27 +26 +10 +28 +24 +14 +03 +13	35 12 05 04 13 345 38 291 300 29 351 338 305 254	J J E J B E E J J E B B A	04 01 13 01 04 56 04 17 01 05 13 02 11 01
May 8	08 54	2	—15 +25 +11 +22 +02 +13 —24 +08 +23 —04	345 290 298 353 304 253 03 263 308 213	H D J B B C A B B A	10 08 01 05 07 04 01 04 08 04
May 10	12 10	3	+26 +11 +03 +15 +07 —06 +13 +20 —12 —17	295 298 304 255 266 209 280 259 224 187	H J B C C B A A A D	05 01 05 03 14 12 05 04 04 13
May 12	11 20	3	+26 +11 +14 +08 —07 —17 —24 +16	289 293 254 263 204 183 145 284	J J J D B D J A	02 01 01 06 04 09 01 01
May 14	07 50	3	+15 +08 —07 —17 —23 —08 —06	256 266 207 185 148 153 135	J J B E J B C	01 01 07 29 01 03 05
May 15	08 05	3	+14 +07	256 262	J J	01 01

TABLE IX—contd.

1	2	3	4	5	6	7
	h. m.					
			—06 —17 —22 —05	207 185 145 132	J E J H	01 24 01 02
May 16	10 13	3	+13 —07 —17 —23 —06 +39	256 208 183 145 131 112	J A E J H J	01 01 28 01 03 03
May 17	08 22	3	—06 —17 —24 —07 +39 +23	213 184 146 134 116 78	A E J H J J	01 41 01 04 03 02
May 18	08 14	2	—17 —24 —07 +39 +23	184 146 134 116 81	E J G G J	22 04 04 08 01
May 19	08 20	2	—17 —24 —07 +39 +23 +24 —24 +16 +18	186 144 133 115 80 140 117 74 60	E H E E H D B A A	16 01 14 17 02 06 10 01 10
May 20	07 58	2	—17 —24 —07 +40 +22 +24 —24 +18 +18	187 143 132 111 81 136 119 64 71	D J G E H D B A A	08 01 05 17 10 07 03 01 02
May 21	08 00	2	—13 —23 —07 +40 +19 +25 +17 +08 —18 +07	185 145 132 111 83 138 58 32 35 90	A J G D G C A A A A	04 01 06 20 10 20 01 01 01 15
May 22	08 12	3	—23 —07 +40 +21 +25 +17 +08 —17 +08	145 133 111 82 138 61 35 33 93	J D D G C A J J B	01 05 15 06 06 01 01 01 13

TABLE IX—*contd.*

1	2	3	4	5	6	7
	h. m.					
May 23	08 56	2	—13	80	A	03
			—29	120	A	02
			—24	144	H	01
			—07	132	D	05
			+25	134	C	09
			—25	119	A	07
			+40	109	D	15
			+09	96	E	29
			—14	79	C	06
			+21	79	H	06
			+17	60	A	01
			—16	33	H	01
			+08	33	A	01
			+21	06	A	01
May 24	08 28	2	—25	143	J	01
			—08	136	J	01
			+39	103	J	02
			+22	77	H	06
			+24	137	J	02
			+08	32	J	01
			—17	33	J	01
			+08	93	E	16
			—13	78	C	06
			—23	118	D	08
			+19	06	A	01
			+05	48	A	06
			—16	355	D	07
May 25	07 46	2	—24	122	C	07
			—08	137	A	01
			+38	101	A	01
			+23	79	J	04
			+08	32	J	01
			—16	33	J	01
			+09	96	D	15
			—13	80	B	03
			—28	85	B	04
			+23	02	B	03
			+07	49	D	12
			—18	357	G	06
May 26	07 57	3	+38	101	A	04
			+23	79	J	04
			+08	32	H	02
			—17	32	J	04
			+09	96	E	14
			—13	80	D	04
			—25	122	C	06
			+23	03	B	03
			+07	50	D	13
			—18	357	E	11
			—30	85	B	03
May 27	07 48	2	+23	78	J	01
			+08	34	H	04
			—16	33	J	01
			+09	100	J	05
			—13	81	J	05
			+23	03	B	04
			+07	51	B	05
			—17	354	E	09
			—16	321	A	01
			+18	19	A	01

TABLE IX—*contd.*

1	2	3	4	5	6	7
	h. m.					
May 28	07 54	2	+28	311	A	02
			-27	338	A	03
			+09	96	J	01
			-12	78	J	05
			+23	78	J	01
			+08	53	A	03
			+08	34	H	03
			-17	31	H	03
			+20	10	J	01
			-17	354	F	14
			-33	335	A	04
			-15	317	H	02
			+26	311	H	02
			+12	297	A	01
May 29	07 39	2	+23	78	A	01
			+08	31	J	01
			-16	31	J	01
			-13	82	A	01
			+18	08	C	06
			+08	50	A	01
			-17	351	E	22
			-15	317	J	01
			+26	310	H	04
			-22	332	B	03
			+12	298	A	01
			+18	305	A	02
			+27	342	A	10
			+27	282	B	02
May 30	07 42	2	+09	34	J	01
			-15	34	J	01
			+18	06	B	18
			-15	352	E	32
			-15	319	J	01
			+26	308	J	01
			-31	335	A	03
			+12	301	A	04
			+18	304	A	06
			+28	343	C	24
			+27	284	J	06
			+19	332	A	05
			-21	278	A	01
May 31	08 00	2	+09	34	J	01
			-15	34	J	01
			+18	06	D	08
			-17	352	J	21
			-15	319	J	05
			+26	308	J	01
			-31	335	A	01
			+17	304	A	03
			+28	342	C	24
			+27	285	J	01
			-21	282	A	02
June 1	08 42	2	+09	34	J	01
			-16	31	J	01
			+17	05	B	09
			-16	352	D	09
			-15	320	J	03
			+25	308	H	04
			+16	304	A	03
			+28	344	D	21

TABLE IX—*contd.*

1	2	3	4	5	6	7
	h. m.					
June 2	08 08	2	+25	284	J	01
			-23	278	A	02
			+17	330	A	04
			+09	34	J	01
			-16	31	J	01
			+16	05	B	02
			-15	352	G	08
			+28	343	E	29
			+19	331	B	08
			-15	318	H	01
			+24	306	H	01
			+15	303	A	01
			+24	281	H	02
			-22	276	B	03
June 3	08 45	2	-14	351	D	09
			-15	318	D	07
			+24	305	J	02
			+16	303	A	02
			+28	341	E	27
			+25	281	H	04
			-22	277	B	06
			+18	331	B	09
			-29	334	A	04
			-23	221	J	04
			+30	216	J	01
June 4	08 03	2	-14	340	C	04
			-16	320	D	04
			+24	305	J	02
			+17	302	B	08
			+29	340	E	20
			+25	281	H	03
			-20	275	A	04
			+17	331	B	16
			-23	222	B	04
			+28	213	E	07
			+09	278	B	03
			+08	252	B	09
			+42	215	A	02
June 5	11 20	2	-14	350	J	03
			-15	318	J	01
			+24	305	H	02
			+17	301	D	12
			+29	340	E	09
			+25	281	H	01
			-21	275	A	03
			+16	330	D	14
			-23	222	B	04
			+28	212	E	19
			+10	277	B	06
			+10	254	A	03
			+43	207	B	09
June 6	09 35	2	-17	201	J	03
			-15	322	J	02
			+26	302	J	02
			+17	301	D	08
			+30	334	J	03
			+25	280	H	02
			-22	275	A	02
			+16	337	J	06

TABLE IX—contd.

1	2	3	4	5	6	7
			—23 +28 +10 +43 —18	223 210 280 213 200	B E B D B	06 18 06 17 05
June 7	08 11	1	—15 +26 +16 —20 +25 +10 —23 +44 +29 +16 —18	321 302 299 278 278 275 225 211 206 200 199	J J D A H B J E F G C	01 01 10 01 02 03 01 36 50 06 10
June 8	07 50	2	+26 +17 +26 —22 +28 +44 —17 +15 —16	301 297 277 224 205 210 200 198 176	J J H D F E J B A	01 04 02 07 62 41 04 07 01
June 9	07 53	1	+18 +25 —23 +28 +45 —17 +16 —16 —07	299 279 226 207 214 202 199 179 149	A H B F F B A A A A	02 11 14 61 33 06 04 14 04
June 10	07 51	1	+25 —23 +28 +45 —17 +16 —15 —22 +13 +13 —26	278 228 206 213 201 200 180 177 178 164 132	H C F F B A A A A A A B	07 13 02 35 04 04 08 07 04 02 01
June 11	08 26	2	+25 —23 +28 +54 —18 +16 —15 —24 +14 —24 —08	279 227 206 210 199 200 179 186 164 137 186	J J F F A B B B A J A	01 01 57 42 01 06 07 05 06 01 03
June 12	08 32	2	—21 +44 +28	226 207 205	J F F	03 26 50

TABLE IX—contd.

1	2	3	4	5	6	7
	h. m.					
			+17	199	B	06
			-18	199	A	01
			-25	185	B	04
			-17	176	B	15
			+14	164	B	09
			-25	131	J	02
			+10	107	A	02
			+17	99	A	03
June 13	09 13	2	-23	227	J	03
			+28	204	E	30
			+43	206	E	12
			-17	198	A	01
			+16	198	J	05
			-18	179	J	04
			-25	185	A	02
			-24	135	A	01
			+10	100	A	01
			+14	105	D	10
			-27	90	H	02
June 14	07 52	2	-24	232	A	04
			+27	199	E	52
			+43	207	E	19
			+15	199	A	02
			-27	180	A	10
			-24	128	A	06
			+13	102	G	22
			-28	87	H	04
June 16	09 05	2	+27	197	J	05
			+42	207	J	02
			+15	103	D	20
			-27	90	H	02
			+07	51	A	02
			-28	190	A	02
			-23	127	A	01
June 18	11 34	2	+15	104	E	14
			-27	89	D	03
			+06	51	A	01
			-11	57	A	02
			+19	40	B	04
			+14	21	A	02
June 19	08 27	2	+16	104	E	23
			-25	91	D	08
			+07	49	J	02
			+20	38	B	07
			+12	16	A	05
			+12	83	A	07
June 21	14 40	2	+14	103	E	13
			-25	91	H	05
			+07	49	J	01
			+20	37	B	05
			+12	14	B	18
			+06	83	A	03
			-14	356	B	06
June 22	08 18	2	+14	102	H	04
			-26	86	H	04
			+07	48	J	02
			+21	36	B	02
			+13	13	E	22

TABLE IX—concl'd.

1	2	3	4	5	6	7
	h. m.					
			+06	82	A	02
			-14	356	D	02
			-32	70	A	01
June 26	03 16	2	+07	50	A	01
			+14	11	D	60
			-13	351	B	19
			-21	30	B	02
			-24	354	A	02
			-15	337	B	04
			-21	315	E	38
			-07	311	A	02
			+09	304	D	21
			+18	301	A	01
			-11	295	A	03
June 28	08 30	2	+14	12	A	16
			-08	359	A	04
			-18	317	E	42
			-06	313	A	04
			+12	302	E	41
			-11	295	A	03
			+27	272	A	04
			+13	268	A	06

PART II

Magnetic Observations for the I Half of 1958

Brief descriptions of the absolute instruments, the variometers and the system of observations are available in Bulletins Nos. CXXXII and CXXVI of this observatory. The data given in this bulletin are derived mainly from the records of La Cour instruments, but in case of failure of La Cour records, Watson magnetograms have been used.

The adopted values of the scale co-efficients for the Horizontal Force were $28\gamma/\text{cm.}$ for the months of February and March and $29\gamma/\text{cm.}$ for the remaining four months of the first half of 1958. The adopted values of the scale co-efficients for Vertical Force and Declination magnetographs for the first half of 1958 were $115\gamma/\text{cm.}$ and $14'/\text{cm.}$ respectively.

Trends in magnetic variations

The mean value of and range in Horizontal Force for the first half of 1958 were $39,528\gamma$ and 194γ respectively showing an increase over the corresponding values, namely, $39,521\gamma$ and 187γ for the second half of 1957. The mean value of and range in Vertical Force decreased from 2343γ to 2332γ and from 55γ to 54γ respectively in comparison with the corresponding values for the second half of 1957. The mean westerly declination was $2^{\circ}36'.2$ and its mean range was $5'.4$ showing an increase of $0'.2$ over the corresponding mean value and range for the second half of 1957.

A. K. DAS,

Kodaikanal Observatory,
August, 1958.

Dy. Director-General of Observatories.

MAGNETIC DATA

TABLE 1

Hourly Values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

January

2° plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1††	34.1	35.6	36.4	37.3	37.1	36.6	36.7	35.9	34.8	34.5	34.8	34.6	34.9	34.8	34.5
2	34.8	35.7	37.3	38.0	37.6	36.6	36.0	36.3	35.0	34.8	34.6	34.2	34.3	34.6	34.5
3†	36.0	36.0	36.4	36.4	36.4	37.0	37.5	37.2	37.5	37.4	36.5	35.7	35.6	36.0	35.4
4†	36.3	36.1	36.3	36.4	35.6	36.1	37.4	37.7	37.5	36.8	36.7	36.5	36.0	35.7	35.3
5†	36.8	36.4	36.4	36.3	35.4	34.9	35.3	36.3	36.5	37.0	36.5	36.4	36.3	36.1	35.7
6	36.8	37.4	37.5	36.5	34.7	33.9	35.1	36.1	35.3	36.0	36.7	36.4	36.4	36.4	36.1
7†	36.8	37.1	37.7	37.0	34.9	34.6	36.0	36.0	35.1	35.3	35.4	35.8	36.4	36.3	36.1
8†	37.1	37.7	38.8	38.6	37.5	37.3	37.8	36.5	35.1	35.1	35.4	35.9	36.4	36.4	35.7
9	37.2	37.8	37.9	37.5	37.1	38.0	38.3	37.5	36.5	36.5	36.8	36.6	36.6	36.8	36.2
10	36.2	36.6	36.6	36.6	36.8	37.5	37.2	37.2	36.6	36.6	36.6	36.4	36.4	37.2	36.4
11	36.4	36.6	37.5	37.8	37.5	38.9	39.6	39.2	38.5	37.6	36.4	36.8	36.9	37.2	36.8
12	36.6	36.9	36.1	35.8	36.2	36.9	38.5	39.4	38.0	38.3	38.5	38.0	37.5	37.2	36.5
13	36.5	35.8	35.2	35.1	35.4	36.1	37.1	38.2	37.5	37.8	38.2	37.6	36.5	36.4	36.2
14	36.8	36.9	36.5	36.1	36.2	37.8	39.3	40.6	41.1	40.7	39.6	38.0	37.5	36.4	35.7
15	36.8	36.6	36.8	35.7	35.0	36.5	38.0	38.2	37.8	37.2	36.9	36.9	36.9	36.9	35.7
16	36.5	36.6	36.2	35.4	36.2	37.6	39.2	39.0	39.0	39.6	38.9	37.5	36.8	36.5	35.9
17††	36.8	36.8	35.9	35.1	34.5	35.1	36.6	38.2	39.0	39.7	39.4	37.9	37.6	36.5	35.5
18††	35.1	35.4	36.1	35.1	35.1	36.6	36.9	37.8	38.6	38.3	37.2	36.6	36.4	35.5	35.2
19	35.5	35.5	35.6	35.2	34.2	36.0	36.6	36.7	36.6	36.9	37.6	37.4	36.9	36.7	36.5
20	36.9	37.3	36.9	36.5	35.1	36.3	38.0	39.4	37.9	37.6	36.7	36.5	35.6	36.3	36.3
21††	36.6	37.6	37.7	37.7	35.6	35.3	35.9	35.6	36.3	36.7	36.7	36.8	36.7	36.6	35.7
22	36.0	36.4	36.3	35.7	35.2	36.3	38.0	38.7	38.1	36.8	36.6	36.3	36.3	36.6	36.3
23††	36.4	36.6	37.0	37.4	36.8	38.1	38.3	37.2	35.3	35.7	35.8	36.2	37.2	37.1	36.7
24	36.4	36.7	37.5	37.5	37.1	36.9	37.6	38.6	38.1	35.8	36.7	36.5	36.4	36.5	35.7
25	36.7	36.8	36.8	37.2	37.5	38.0	38.6	39.3	39.6	39.3	39.3	38.4	37.7	37.2	36.5
26	37.0	37.2	37.0	35.8	35.5	36.6	37.5	38.7	39.3	38.2	36.5	35.5	35.6	35.9	35.9
27	35.9	36.5	36.5	36.2	36.6	38.1	38.5	38.8	38.7	37.3	36.9	37.0	37.4	37.0	36.6
28	37.0	37.0	37.3	37.0	36.0	37.0	40.2	40.1	39.0	36.7	35.7	36.0	36.0	36.6	36.6
29	37.1	37.1	37.0	36.8	37.3	38.4	39.0	39.7	38.0	37.0	37.0	36.8	35.9	35.9	35.9
30	37.3	37.9	38.4	38.0	35.9	36.9	39.6	39.6	38.7	38.2	37.2	36.5	36.5	36.6	36.6
31	37.3	38.0	38.3	38.2	37.0	37.2	38.0	38.0	37.2	36.6	36.5	36.6	36.9	36.9	36.6
Mean	36.4	36.7	36.9	36.6	36.1	36.7	37.7	38.0	37.5	37.2	36.9	36.6	36.5	36.4	36.0
Mean†	36.6	36.7	37.1	36.9	36.0	36.0	36.8	36.7	36.3	36.3	36.1	36.1	36.1	36.1	35.6
Mean††	35.8	36.4	36.6	36.5	35.8	36.3	36.9	36.9	36.8	37.0	36.8	36.4	36.6	36.1	35.5

†Five International quiet days.

††Five International disturbed days.

Δ Loss of record ; day omitted for means.

TABLE I

Hourly Values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

January

2° plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.	Mag.	
										H. M.		H. M.			
34.2	34.5	34.2	33.8	33.4	33.2	33.2	33.5	33.8	34.9	04 18	38.4	20 04	32.8	5.6	1††
34.5	34.8	34.6	34.9	35.0	35.2	35.5	35.6	35.9	35.4	02 56	38.4	11 17	33.8	4.6	2
35.3	35.3	35.6	35.6	35.7	35.7	35.7	36.0	36.3	36.2	06 00	37.5	15 00	35.3	2.2	3†
35.4	35.6	36.0	36.0	36.0	36.3	36.3	36.4	36.7	36.3	07 00	37.7	14 00	35.3	2.4	4†
35.8	36.1	36.0	36.0	36.1	36.4	36.4	36.4	36.7	36.2	08 52	37.1	05 14	34.6	2.5	5†
36.0	36.0	36.1	36.0	36.1	36.3	36.3	36.3	36.5	36.1	01 12	37.7	04 45	33.7	4.0	6
36.1	36.3	36.4	36.1	36.3	36.3	36.4	36.7	36.8	36.2	02 00	37.7	04 28	34.0	3.7	7†
35.9	36.2	36.4	36.2	36.2	36.2	36.4	36.5	36.6	36.6	02 30	38.9	08 28	35.0	3.9	8†
36.2	35.9	35.9	35.8	36.2	35.9	35.4	35.4	35.8	36.7	05 33	38.6	20 50	35.2	3.4	9
35.8	35.5	35.9	36.2	36.1	35.4	35.5	36.1	36.1	36.4	05 27	37.8	20 00	35.4	2.4	10
36.4	36.6	36.6	36.6	36.2	35.8	35.8	36.1	36.2	37.1	05 30	40.6	20 30	35.7	4.9	11
36.4	36.5	36.4	36.2	36.2	36.2	36.2	36.5	36.5	37.0	07 15	40.0	03 00	35.8	4.2	12
36.4	36.5	36.6	36.8	36.8	36.2	36.2	36.2	36.6	36.6	07 05	38.3	03 01	34.8	3.5	13
36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.5	37.3	07 48	41.4	13 35	35.4	6.0	14
35.4	35.8	35.9	35.9	35.8	36.2	36.1	36.1	36.4	36.5	07 02	38.3	03 52	34.4	3.9	15
36.4	36.2	36.2	36.2	35.8	35.4	35.4	36.1	36.2	36.9	09 30	40.0	03 00	35.1	4.9	16
35.4	35.7	35.9	35.8	35.5	35.5	35.1	35.1	35.1	40.3	08 55	40.3	03 42	34.3	6.0	17††
35.4	35.2	35.1	34.8	34.8	34.8	34.8	35.1	35.2	35.9	07 44	40.2	03 10	34.4	5.8	18††
36.2	36.2	35.9	35.6	35.9	36.2	36.5	36.7	36.7	36.2	10 10	37.7	03 39	34.1	3.6	19
36.2	36.2	36.0	36.2	35.9	35.6	35.5	35.8	35.9	36.5	06 45	39.5	03 30	34.9	4.6	20
35.6	35.6	35.6	35.4	35.3	35.3	35.3	35.3	35.3	36.1	02 42	38.3	04 46	34.3	4.0	21††
35.7	35.7	35.7	35.7	35.6	35.6	35.9	36.1	36.0	36.3	06 42	39.1	03 30	34.7	4.4	22
36.8	36.2	36.0	36.0	35.4	35.3	35.4	35.7	35.8	36.4	06 00	38.6	08 05	35.0	3.6	23††
36.1	36.5	36.4	36.2	36.1	36.2	36.5	36.7	36.7	36.7	07 08	39.0	13 45	35.5	3.5	24
35.8	35.6	35.2	35.4	35.5	35.9	36.1	36.5	36.8	37.2	08 15	39.8	17 00	35.1	4.7	25
35.9	35.9	35.9	35.6	35.6	35.9	35.9	35.9	35.9	36.4	07 58	39.6	03 30	34.8	4.8	26
36.6	36.6	36.6	36.6	36.2	36.6	36.7	36.6	37.0	37.0	06 42	39.1	03 24	35.9	3.2	27
36.6	36.9	37.0	36.7	36.7	36.7	36.9	37.0	37.1	37.1	06 09	40.6	09 35	35.6	5.0	28
35.8	35.9	36.1	36.5	36.6	37.0	37.2	37.0	37.2	37.0	06 11	40.5	15 00	35.8	4.7	29
36.8	36.9	36.9	36.9	36.9	36.8	36.9	36.9	37.2	37.3	07 34	40.0	04 20	35.5	4.5	30
36.5	36.5	36.5	36.6	36.8	36.8	36.8	36.9	36.9	37.1	02 24	38.7	09 35	36.2	2.5	31
35.9	36.0	36.0	35.9	35.9	35.9	35.9	36.1	36.3	36.5	..	..	..	..	4.1	Mean
35.7	35.9	36.1	36.0	36.1	36.2	36.2	36.4	36.6	..	..	..	..	..	..	Mean†
35.5	35.4	35.4	35.2	34.9	34.8	34.8	34.9	35.0	..	..	..	..	..	..	Mean††

†Five International quiet days.

††Five International disturbed days.

△ Loss of record; day omitted for means.

TABLE 2

Hourly Values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

February

2° plus tabular quantities

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14

1	37.3	37.7	38.3	38.0	37.3	37.3	37.6	36.9	36.5	36.2	35.9	36.2	36.6	36.3	35.6
2	37.6	37.9	37.6	36.8	36.2	35.8	35.7	36.5	36.7	35.4	35.3	36.4	37.2	36.8	35.8
3†	37.4	38.1	37.5	39.3	38.2	36.9	36.8	36.8	35.7	35.3	35.8	36.9	37.1	36.4	36.4
4	37.8	37.9	38.5	38.2	36.9	36.8	37.2	36.7	35.5	35.8	36.5	37.1	37.4	37.2	36.8
5	35.5	36.8	37.5	37.9	37.2	37.2	37.6	36.0	34.3	35.3	35.3	35.4	36.4	35.5	35.5
6††	35.8	36.8	38.2	38.2	38.9	39.1	38.4	36.7	35.6	35.0	36.3	37.3	37.0	36.7	36.3
7	35.6	36.3	37.0	37.0	36.8	38.0	38.2	36.7	35.0	34.0	33.9	34.9	35.2	36.3	35.6
8	35.3	36.1	37.0	37.4	37.7	39.6	39.6	38.2	36.4	35.0	33.9	34.6	35.4	35.4	35.3
9	34.6	34.7	35.6	36.8	37.8	39.6	40.0	39.0	37.4	35.4	35.0	35.3	35.4	36.1	35.8
10	36.0	36.4	36.7	38.2	40.0	41.1	41.1	40.3	38.2	36.4	35.3	35.1	36.0	36.2	35.7
11††	35.3	35.2	37.4	43.4	41.8	39.2	36.5	35.7	32.0	30.8	28.5	28.3	29.2	31.3	29.8
12††	32.9	33.3	33.6	34.2	35.2	36.8	37.9	38.7	36.9	35.8	34.2	33.8	34.7	34.5	34.2
13	36.5	37.0	37.2	38.2	38.6	38.3	38.4	38.6	38.2	36.6	35.6	35.2	35.4	35.2	35.4
14	35.5	35.4	35.1	35.1	35.2	36.5	37.0	37.9	37.9	36.8	35.8	35.4	35.5	35.6	35.5
15†	35.9	36.5	37.0	36.9	36.8	36.8	37.2	36.9	36.9	36.8	36.7	36.4	37.1	36.8	36.5
16	37.5	37.5	37.1	37.5	38.5	38.8	38.8	38.6	38.2	37.6	36.9	36.8	37.1	37.2	36.7
17††	37.8	38.5	38.9	38.8	38.5	38.4	37.1	36.8	35.6	34.9	35.4	35.6	37.3	36.6	36.4
18††	35.6	35.6	36.8	37.0	37.1	38.0	37.8	36.4	35.7	36.3	36.6	36.6	36.8	36.3	36.0
19	35.7	36.1	36.6	36.2	36.5	36.9	36.7	34.8	33.7	33.0	33.7	34.8	36.5	36.3	35.9
20	35.2	35.6	36.9	37.9	38.6	38.6	37.7	36.9	35.3	35.1	35.2	35.2	36.0	36.2	36.2
21	35.3	35.5	35.5	36.2	37.3	37.9	37.5	37.2	35.4	35.4	34.8	35.0	35.8	35.8	35.5
22	35.2	35.0	34.5	35.8	37.2	38.2	38.3	38.2	37.6	36.2	36.1	35.7	36.4	36.2	35.4
23	35.5	35.2	35.0	34.6	35.3	36.3	38.1	38.8	37.7	36.4	35.6	35.3	35.1	35.8	35.3
24†	35.7	35.4	35.0	35.0	36.1	37.5	38.8	39.3	38.9	38.7	37.7	35.7	35.8	35.8	35.4
25†	36.4	35.8	36.0	36.0	36.9	38.7	39.9	39.1	38.8	37.4	36.4	36.3	36.7	36.3	35.9
26†	36.4	36.3	36.4	36.9	37.7	38.0	39.8	38.8	38.0	37.3	36.2	36.0	36.3	36.2	36.0
27	36.3	36.3	36.3	36.9	37.9	38.9	40.0	39.4	38.3	36.9	35.8	35.1	35.5	35.6	35.8
28	35.8	35.5	35.4	36.5	37.9	39.8	40.1	40.1	37.9	36.5	35.8	35.2	35.1	35.9	35.5
Mean	36.0	36.2	36.6	37.2	37.5	38.0	38.2	37.7	36.6	35.8	35.4	35.4	35.9	35.9	35.6
Mean†	36.4	36.4	36.4	36.8	37.1	37.6	38.5	38.2	37.7	37.1	36.6	36.3	36.6	36.3	36.0
Mean††	35.5	35.9	37.0	38.3	38.2	38.3	37.5	36.9	35.2	34.6	34.2	34.3	35.0	35.1	34.5

†Five International quiet days.

††Five International disturbed days

Δ Loss of record ; day omitted for means.

TABLE 2

Hourly Values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

February

2° plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
										H. M.		H. M.		Mag.	
35.8	35.8	35.9	36.2	36.5	36.8	36.9	37.0	37.3	36.7	05 39	37.9	14 00	35.6	2.3	1
35.8	36.0	36.0	36.0	36.4	36.5	36.8	36.8	37.1	36.5	01 00	37.9	10 00	35.3	2.6	2
36.5	36.7	36.7	36.7	36.5	36.7	36.8	37.1	37.5	36.9	03 22	39.5	09 00	35.3	4.2	3†
36.2	36.4	36.4	36.1	35.5	35.1	35.7	34.8	35.0	36.6	02 08	38.8	20 50	34.1	4.7	4
36.1	36.1	35.5	35.4	35.4	35.1	34.8	34.7	35.3	35.9	05 42	39.0	07 58	34.0	5.0	5
35.4	35.2	34.9	35.0	35.2	35.3	35.2	35.3	35.2	36.4	05 32	39.5	17 05	34.6	4.9	6††
35.9	35.6	35.6	35.4	35.4	35.4	35.3	35.4	35.4	35.8	05 50	38.4	10 00	33.9	4.5	7
35.3	35.2	35.6	35.6	35.3	35.2	34.7	34.3	34.6	35.9	05 50	40.3	09 36	33.6	6.7	8
36.0	35.8	35.3	35.4	35.7	35.7	35.4	35.5	35.5	36.2	05 30	40.3	00 02	34.5	5.8	9
35.7	35.4	35.1	35.1	34.7	34.4	34.4	34.6	34.8	36.5	04 55	41.4	20 00	34.4	7.0	10
30.9	30.8	32.0	31.8	31.2	31.1	32.0	32.5	32.3	33.3	03 40	45.5	09 42	26.4	19.1	11††
34.2	34.4	34.9	35.1	35.1	35.1	35.2	35.5	35.6	35.1	07 03	40.4	01 53	32.3	8.1	12††
35.5	35.5	35.4	35.4	35.6	35.8	35.5	35.5	35.5	36.4	06 06	39.0	12 42	34.9	4.1	13
35.8	35.9	35.5	35.8	35.8	35.8	35.8	36.1	35.9	35.9	07 45	38.0	01 23	34.8	3.2	14
36.2	36.2	36.5	36.7	36.8	36.8	36.8	36.8	37.1	36.7	06 00	37.5	00 01	35.9	1.6	15†
36.1	36.1	36.8	36.8	36.5	36.5	36.5	36.5	37.1	37.2	04 35	38.9	15 00	36.1	2.8	16
36.3	36.3	36.3	35.6	35.3	35.3	35.3	35.3	35.4	36.6	03 36	39.2	09 10	34.3	4.9	17††
36.0	35.7	35.6	35.4	35.2	35.6	35.3	35.4	35.6	36.2	05 48	38.7	18 40	35.0	3.7	18††
36.0	36.0	35.9	35.8	35.3	35.5	35.5	35.5	35.2	35.6	04 40	37.7	09 00	32.7	5.0	19
34.8	36.0	35.9	35.6	35.5	34.8	34.4	34.1	35.2	36.0	04 25	37.9	21 54	33.8	4.1	20
35.9	35.9	35.7	35.4	35.4	35.1	35.4	35.5	35.1	35.8	04 36	38.3	10 32	34.4	3.9	21
35.8	35.9	36.1	36.2	35.8	35.5	35.7	35.5	35.0	36.2	05 52	38.9	01 48	33.7	5.2	22
35.3	35.7	36.0	36.1	35.6	35.7	35.6	35.7	35.7	35.9	06 40	39.2	03 00	34.6	4.6	23
35.7	36.1	36.1	36.1	36.1	36.1	36.1	36.3	36.3	36.5	07 00	39.3	02 00	35.0	4.3	24†
35.9	35.9	36.0	36.0	36.0	36.0	36.0	36.2	36.3	36.7	05 45	40.1	01 20	35.4	4.7	25†
36.0	36.0	36.3	36.2	36.2	36.2	36.2	36.2	36.3	36.7	06 04	40.1	11 00	36.0	4.1	26†
35.8	35.9	36.1	36.1	35.8	35.5	35.6	35.9	35.8	36.6	06 15	40.1	11 00	35.1	5.0	27
35.2	35.5	35.6	35.6	35.8	35.8	35.9	35.9	35.9	36.4	06 54	40.4	12 04	34.8	5.6	28
35.6	35.7	35.7	35.7	35.7	35.5	35.5	35.6	35.7	36.2	..	..	..	..	5.1	Mean
36.1	36.2	36.3	36.3	36.3	36.4	36.4	36.5	36.7	..	..	..	..	..	..	Mean†
34.6	34.5	34.7	34.6	34.4	34.5	34.6	34.8	34.8	..	..	..	..	..	..	Mean††

†Five International quiet days.

††Five International disturbed days.

△Loss of record ; day omitted for means.

TABLE 3

Hourly Values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

March

2° plus tabular quantities

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1†	36.2	36.1	36.1	36.7	38.1	39.2	39.6	39.2	38.1	37.5	36.5	35.8	35.7	35.8	35.4
2†	35.4	35.5	35.7	36.0	37.1	37.9	38.3	37.6	36.5	35.8	34.8	34.6	34.8	35.8	35.8
3	36.0	36.0	36.0	35.6	36.1	36.8	36.6	36.3	35.7	34.7	33.2	32.9	34.6	36.0	35.9
4	34.6	34.3	34.9	35.3	36.0	36.0	36.0	35.7	35.7	34.3	33.5	33.3	34.2	34.2	34.5
5††	34.6	34.9	35.7	36.1	37.1	38.2	38.7	37.1	34.7	36.2	34.3	34.3	34.9	35.0	34.6
6	34.9	34.9	34.7	35.5	35.5	36.7	37.9	37.6	37.3	36.3	35.6	35.2	34.4	34.6	34.5
7	34.6	34.5	34.8	34.9	35.5	36.2	37.0	37.0	36.9	36.0	35.9	35.8	35.3	34.4	34.5
8	34.8	34.8	34.8	34.8	35.2	35.8	37.0	37.3	37.2	36.0	35.6	34.9	34.8	35.3	35.1
9	34.5	34.2	33.9	34.1	35.1	36.1	37.2	36.1	35.7	35.4	35.5	35.4	35.5	34.7	34.7
10	35.5	35.2	35.4	35.4	35.7	36.1	36.5	38.3	38.0	38.2	36.4	34.8	34.4	34.7	34.5
11	34.4	34.4	35.1	35.7	36.1	36.9	37.3	37.9	37.2	36.6	35.9	35.7	35.5	35.5	34.7
12††	34.4	33.8	33.8	33.1	34.0	35.0	34.8	34.8	34.8	34.4	34.5	34.1	33.8	33.4	33.0
13††	35.9	36.1	36.0	35.9	35.9	35.9	35.9	35.7	34.7	34.1	33.7	33.0	33.0	32.9	△
14	34.0	34.0	34.0	34.1	34.7	35.5	35.9	36.8	36.9	35.9	34.8	34.5	34.5	34.1	35.1
15	35.7	35.5	35.4	35.8	35.8	35.8	36.6	37.2	37.2	36.6	36.1	36.2	35.5	35.0	34.4
16†	34.5	34.0	33.6	33.4	34.1	36.1	37.5	38.7	39.2	38.3	37.2	36.5	36.1	35.7	35.4
17	34.7	35.0	35.4	35.5	36.2	37.5	37.5	37.5	38.0	35.8	33.7	35.8	35.1	34.7	34.3
18	35.5	35.2	35.2	35.5	35.7	37.1	36.9	36.9	36.4	37.3	36.6	35.9	35.8	35.1	34.4
19††	34.3	34.1	34.1	34.1	34.8	35.6	35.9	36.6	37.3	37.4	36.9	36.3	35.6	34.4	34.1
20††	35.6	35.6	35.6	35.6	36.9	37.4	37.4	37.4	38.7	37.6	36.5	34.8	34.9	35.3	34.8
21	34.8	35.1	35.5	35.8	37.0	37.9	38.3	37.9	37.6	36.9	36.0	35.9	35.9	35.8	35.5
22	33.8	33.4	33.1	33.2	34.4	35.6	36.7	37.4	37.3	36.7	35.8	36.3	34.8	35.2	34.8
23	35.3	35.2	34.6	34.6	34.6	34.4	35.6	37.0	36.6	35.8	34.8	34.4	34.5	34.8	34.4
24	34.4	34.2	34.2	34.6	35.8	36.0	37.2	37.0	36.9	36.3	35.3	34.9	34.8	35.2	35.2
25	35.1	34.6	34.1	33.9	34.7	35.4	36.1	36.8	36.7	35.9	35.2	35.4	35.4	34.7	34.2
26	35.7	35.6	34.9	35.0	35.7	36.0	36.8	37.8	37.7	37.7	37.3	36.1	35.0	35.6	35.3
27	35.3	35.0	34.7	34.5	35.7	35.9	37.0	38.2	38.7	38.4	37.1	36.1	36.0	35.9	35.6
28†	35.7	35.9	35.6	35.3	35.7	36.7	37.4	38.5	38.5	37.4	36.3	35.7	35.6	35.7	35.7
29†	36.0	36.0	35.3	35.1	36.1	37.1	38.5	38.9	39.0	38.8	37.5	36.8	36.4	36.0	35.7
30	36.0	35.7	34.8	35.0	35.8	36.7	38.1	39.0	39.2	37.5	36.1	35.7	35.7	35.1	34.4
31	34.6	33.4	33.4	33.7	34.7	36.2	37.1	38.1	38.8	38.6	37.6	36.7	36.1	35.8	35.1
Mean	35.0	34.9	34.8	34.9	35.7	36.5	37.1	37.4	37.3	36.7	35.7	35.4	35.2	35.1	34.9
Mean†	35.6	35.5	35.3	35.3	36.2	37.4	38.3	38.6	38.3	37.6	36.5	35.9	35.7	35.8	35.6
Mean††	34.7	34.6	34.8	34.7	35.7	36.5	36.7	36.5	36.4	36.4	35.5	34.9	34.8	34.5	34.1

†Five International quiet days.

††Five International disturbed days.

△Loss of record; day omitted for means.

TABLE 3

Hourly Values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

March

2° plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
										H. M.		H. M.			
35.5	35.7	35.7	35.7	35.7	35.7	35.8	35.8	35.7	36.6	06 45	39.9	14 00	35.4	4.5	1†
35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	36.1	36.0	05 50	38.5	11 00	34.6	3.9	2†
35.9	35.9	35.7	35.4	35.0	34.6	34.7	34.6	34.3	35.4	04 58	37.0	10 30	31.9	5.1	3
34.9	34.9	34.6	34.5	34.5	34.9	35.3	35.3	35.0	34.9	05 43	37.1	10 45	33.2	3.9	4
34.6	34.6	34.5	34.3	34.5	34.6	34.7	34.7	34.7	35.3	06 14	39.9	08 04	33.3	6.6	5††
33.9	34.4	34.5	34.5	34.6	34.4	34.5	35.1	34.9	35.3	06 28	38.4	14 52	33.8	4.6	6
34.6	34.8	34.6	34.5	34.6	34.5	34.5	34.5	34.9	35.2	07 10	37.6	13 00	34.4	3.2	7
34.8	35.2	35.2	35.2	35.1	34.8	34.8	34.6	34.6	35.3	08 11	37.6	23 35	34.5	3.1	8
34.7	34.7	35.1	35.4	35.1	35.4	35.4	35.5	35.5	35.2	05 36	37.5	02 00	33.9	3.6	9
34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.4	35.5	07 20	38.6	12 00	34.4	4.2	10
34.7	34.5	34.3	34.1	34.1	34.4	34.4	34.4	34.4	35.3	06 54	38.2	19 00	34.0	4.2	11
33.1	34.1	34.1	34.0	34.1	34.1	34.5	35.4	35.9	34.2	07 45	35.7	14 00	33.0	2.7	12††
Δ	Δ	Δ	Δ	33.0	33.1	34.0	34.1	34.1	Δ	Δ	Δ	Δ	Δ	Δ	13††
35.0	34.1	34.8	35.2	35.1	35.0	35.0	35.4	35.5	35.0	08 00	36.9	02 00	33.7	3.2	14
34.5	34.4	34.3	34.3	34.5	34.7	34.7	34.7	34.5	35.4	06 46	37.6	18 00	34.0	3.6	15
35.2	35.1	35.1	35.1	34.8	34.8	34.8	34.7	34.7	35.6	07 40	39.6	03 15	33.1	6.5	16†
34.1	34.3	34.3	34.0	34.0	34.5	34.7	35.1	35.2	35.3	08 02	38.9	09 50	33.4	5.5	17
34.5	34.3	34.4	34.0	33.7	33.1	33.0	33.1	34.3	35.2	09 05	37.5	21 00	33.0	4.5	18
33.4	33.2	33.2	33.5	33.5	34.1	34.1	34.2	34.6	34.8	09 00	37.4	17 30	33.1	4.3	19††
34.6	34.6	34.6	34.5	34.5	34.5	34.8	34.4	34.6	35.6	08 25	38.8	21 45	34.2	4.6	20††
34.6	34.6	34.4	34.2	34.4	34.4	34.2	33.7	34.2	35.6	06 13	38.7	22 15	33.4	5.3	21
34.8	34.9	34.9	34.8	34.8	34.8	34.9	34.9	34.8	35.5	07 30	37.8	02 22	33.4	4.4	22
34.2	34.5	34.5	34.2	34.4	34.2	34.5	34.6	34.6	34.8	07 08	37.3	20 15	34.1	3.2	23
34.6	34.4	34.8	34.4	34.2	34.4	34.6	34.8	35.2	35.1	06 45	37.3	01 00	34.2	3.1	24
34.2	35.4	34.7	35.3	35.4	35.0	35.2	34.7	35.0	35.1	07 03	37.0	03 00	33.9	3.1	25
34.6	34.5	34.3	34.6	34.7	34.6	35.0	35.3	35.4	35.6	07 20	38.2	16 39	34.0	4.2	26
35.7	35.6	35.4	35.3	35.4	35.0	35.3	35.7	35.7	36.0	08 42	39.1	03 00	34.2	4.9	27
35.7	35.7	35.3	35.2	35.2	35.4	35.7	35.9	35.9	36.1	06 50	38.7	17 30	34.9	3.8	28†
35.8	36.0	35.7	35.7	35.8	35.8	35.8	35.8	35.8	36.5	08 08	39.5	03 08	35.0	4.5	29†
33.4	33.7	34.0	34.4	34.4	34.4	34.7	35.0	35.0	35.6	07 02	39.6	15 27	33.2	6.4	30
33.0	34.6	34.6	34.6	34.6	34.6	34.7	34.7	34.6	35.5	07 30	39.2	01 30	33.3	5.9	31
34.7	34.8	34.7	34.7	34.7	34.7	34.8	34.9	35.0	35.4	..	..	..	..	4.4	Mean
35.6	35.7	35.5	35.5	35.5	35.5	35.6	35.6	35.6	..	..	..	..	..	..	Mean†
33.9	34.1	34.1	34.1	34.2	34.3	34.5	34.7	34.9	..	..	..	..	..	..	Mean††

†Five International quiet days.

††Five International disturbed days.

ΔLoss of record ; day omitted for means.

TABLE 4

Hourly Values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

2° plus tabular quantities.

April

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	33.9	34.1	33.6	34.0	34.9	36.2	37.9	39.0	39.0	37.9	36.8	36.3	36.2	35.6	34.9
2††	34.9	34.7	34.1	34.7	35.4	36.2	38.3	39.0	38.6	37.3	36.5	35.8	34.9	35.4	34.7
3	35.8	35.1	34.8	35.1	35.5	36.3	37.5	38.3	39.0	37.5	36.1	35.2	35.2	34.9	34.9
4††	35.4	34.8	34.5	34.9	35.9	36.1	37.5	37.9	38.3	37.6	36.3	35.8	35.5	35.2	34.5
5	33.4	33.1	33.0	33.6	35.2	36.2	36.4	37.6	37.7	37.0	37.6	36.4	34.6	34.8	34.6
6	34.6	33.6	33.5	34.5	36.2	37.4	38.4	39.2	39.4	38.0	37.0	35.2	34.8	35.2	35.6
7	34.8	34.8	33.8	33.6	33.8	34.8	36.0	37.7	37.4	36.2	35.3	34.5	34.8	35.0	34.8
8	34.8	35.0	34.6	34.7	35.3	36.4	37.5	37.9	38.1	37.4	35.3	34.3	34.0	34.9	35.0
9	35.0	34.9	34.7	35.1	36.4	37.1	38.2	39.1	38.6	37.9	36.3	35.1	34.9	35.0	35.4
10†	34.9	34.3	34.4	35.1	36.3	37.5	39.3	40.5	39.6	38.4	36.7	35.7	35.4	35.4	35.6
11†	36.1	35.3	35.0	35.8	36.8	38.0	39.6	40.4	40.4	38.6	37.2	36.2	35.7	35.7	35.9
12†	36.4	35.7	35.1	35.8	36.5	37.8	39.2	40.7	40.6	39.2	37.3	36.2	35.9	35.8	36.1
13†	36.2	35.2	35.0	35.5	36.8	38.6	40.4	41.0	40.6	38.7	36.8	35.9	35.8	35.8	36.2
14	36.2	35.8	35.1	35.2	36.3	36.5	37.7	39.0	39.3	38.3	36.9	35.9	36.2	35.9	35.2
15	35.1	33.9	33.9	34.5	36.0	37.0	38.1	39.1	39.0	37.4	36.5	35.5	35.1	35.1	35.3
16††	34.1	33.8	33.7	34.2	36.3	38.3	39.4	39.4	37.7	37.2	35.9	34.9	34.5	35.3	36.0
17††	34.5	33.4	32.8	33.6	35.3	36.3	37.1	38.2	38.0	37.0	36.3	35.9	35.2	35.3	35.3
18††	35.0	34.0	33.3	33.8	34.2	35.6	37.1	38.1	38.0	37.1	36.6	35.0	34.6	33.6	33.9
19	34.9	33.8	33.9	35.3	36.8	38.5	38.8	40.8	39.8	38.7	37.0	35.2	35.0	35.2	35.3
20	35.0	34.6	34.2	35.1	35.7	36.7	38.2	38.9	38.3	37.6	36.7	35.0	34.1	33.9	35.0
21	35.5	34.7	34.0	34.1	35.3	36.9	38.1	38.5	38.5	37.9	36.8	36.0	35.3	35.1	35.5
22†	35.7	35.1	34.0	34.4	35.1	35.7	36.7	37.5	37.8	36.7	35.7	35.0	35.1	35.3	35.7
23	35.4	34.8	34.3	34.8	36.8	38.3	39.4	39.4	38.7	37.3	36.8	36.3	35.5	35.2	35.5
24	35.2	33.7	32.6	33.7	35.6	37.5	38.4	39.6	38.6	37.3	36.8	36.2	35.9	35.2	35.4
25	35.2	34.1	33.8	34.1	35.5	37.9	39.6	40.4	40.1	39.7	38.9	37.6	36.9	36.5	36.5
26	35.6	35.4	35.6	36.6	38.0	39.2	39.7	40.5	40.1	39.4	38.1	36.7	36.0	35.7	36.6
27	35.2	33.8	33.8	35.2	37.0	38.7	40.1	40.9	40.4	39.7	38.4	36.9	36.0	35.9	35.6
28	34.3	35.2	33.8	34.9	36.7	37.7	38.8	39.8	39.7	38.1	36.0	35.5	35.2	35.2	35.3
29	33.9	32.7	32.4	33.7	35.6	37.0	38.5	39.6	39.8	38.5	37.5	36.7	35.7	35.3	35.7
30	35.3	34.0	33.5	34.4	35.8	37.7	39.1	39.6	39.3	38.1	37.5	37.0	36.0	35.0	35.6
Mean	35.1	34.4	34.0	34.7	35.9	37.1	38.4	39.3	39.0	37.9	36.8	35.8	35.3	35.2	35.4
Mean†	35.9	35.1	34.7	35.3	36.3	37.5	39.0	40.0	39.8	38.2	36.7	35.8	35.6	35.6	35.9
Mean††	34.9	34.1	33.7	34.2	35.4	36.5	37.9	38.5	38.1	37.2	36.3	35.5	34.9	35.0	34.9

†Five International quiet days.

††Five International disturbed days.

△Loss of record; days omitted for means.

TABLE 4

Hourly Values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

April

2° plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
										H. M.		H. M.			
34.7	34.5	34.7	34.8	34.4	34.5	34.7	34.5	34.7	35.5	07 52	39.3	02 20	33.4	5.9	1
34.9	34.8	34.8	34.9	34.8	34.9	35.2	35.2	35.2	35.6	07 04	40.0	02 00	34.0	6.0	2††
34.9	35.1	35.1	35.1	35.1	34.8	34.7	35.1	35.2	35.7	08 09	39.1	21 00	34.7	4.4	3
34.4	34.5	34.1	33.7	33.4	33.4	33.5	33.1	33.5	35.2	08 02	38.6	22 18	33.0	5.6	4††
34.2	34.2	34.5	34.6	34.9	35.2	35.3	35.2	34.9	35.2	07 42	37.8	01 24	32.4	5.4	5
35.0	34.8	34.6	34.6	34.3	34.6	34.5	34.5	34.3	35.6	07 30	40.1	02 00	33.5	6.6	6
31.8	34.6	34.6	34.9	34.9	34.9	34.8	34.9	34.8	35.0	07 15	37.8	02 15	33.5	4.3	7
35.0	35.0	34.9	35.0	34.9	34.9	35.1	35.1	35.0	35.4	08 00	38.2	11 15	33.9	4.3	8
35.4	35.6	35.4	35.3	34.9	34.9	34.9	34.9	34.7	35.8	07 05	39.2	01 50	34.6	4.6	9
35.8	35.7	35.8	36.0	35.8	36.0	36.1	36.1	36.4	36.4	07 10	40.6	01 15	34.0	6.6	10†
36.1	36.1	36.1	36.2	36.1	36.1	36.1	35.9	36.1	36.7	07 35	40.7	02 00	35.0	5.7	11†
36.2	36.2	36.1	36.1	36.2	36.1	36.1	36.5	35.9	36.8	07 15	40.8	02 00	35.1	5.7	12†
36.4	36.5	36.4	36.1	36.1	36.2	35.9	36.4	36.2	36.9	07 12	41.4	01 30	34.8	6.6	13†
35.5	35.9	35.9	35.5	35.3	35.2	34.9	34.8	35.2	36.2	08 00	39.3	23 59	34.6	4.7	14
35.2	35.3	35.3	35.2	34.9	34.9	35.2	35.2	35.2	35.7	07 00	39.4	02 00	33.8	5.6	15
35.9	36.6	35.2	34.9	34.9	34.9	34.9	34.4	34.6	35.7	06 45	40.1	01 45	33.5	6.6	16††
35.3	34.9	34.5	34.2	34.9	34.9	34.2	34.2	34.5	35.2	07 15	38.7	01 35	32.7	6.0	17††
31.7	34.9	34.3	34.3	34.9	34.5	34.5	34.3	34.2	35.0	07 19	38.5	02 00	33.3	5.2	18††
31.9	34.9	35.0	34.9	35.0	35.0	34.9	34.7	34.6	36.0	06 58	40.9	01 15	33.5	7.4	19
35.1	35.3	35.3	35.3	35.4	35.1	35.1	35.0	35.3	35.7	07 09	39.3	13 00	33.9	5.4	20
35.7	35.5	35.5	35.3	35.4	35.4	35.4	35.4	35.5	35.9	07 25	38.9	02 00	34.0	4.9	21
35.8	35.7	35.7	35.5	35.4	35.4	35.5	35.4	35.5	35.6	07 35	37.9	02 00	34.0	3.9	22†
35.5	35.5	35.1	34.9	34.9	35.1	35.1	35.2	35.4	36.1	06 30	39.7	02 00	34.1	5.6	23
35.5	35.6	35.4	35.4	35.2	35.1	35.2	35.2	35.4	35.8	06 54	39.7	02 00	32.6	7.1	24
36.6	36.6	36.2	36.2	35.9	35.9	35.9	35.9	35.9	36.7	07 30	40.7	02 00	33.8	6.9	25
36.7	35.7	35.5	36.0	35.9	36.2	35.9	35.9	35.6	36.9	07 00	40.5	23 58	35.2	5.3	26
35.9	35.9	35.9	35.6	35.2	35.2	35.2	35.5	35.2	36.6	07 00	40.9	01 30	33.2	7.7	27
35.3	34.9	34.6	34.6	34.6	34.5	34.6	34.5	34.3	35.8	07 30	40.2	01 15	33.5	6.7	28
35.7	35.7	35.4	35.4	35.4	35.6	35.4	35.7	35.6	35.9	07 30	40.3	01 30	32.2	8.1	29
35.7	35.7	35.7	35.4	35.6	35.4	35.6	35.6	35.3	36.2	07 40	39.9	01 34	33.2	6.7	30
35.4	35.4	35.3	35.2	35.2	35.2	35.1	35.1	35.1	35.9	..	..	..	..	5.9	Mean
36.1	36.0	36.0	36.0	35.9	36.0	35.9	36.3	36.0	..	..	..	..	..	..	Mean†
35.0	35.1	34.6	34.4	34.6	34.5	34.5	34.2	34.4	..	..	..	..	..	..	Mean††

†Five International quiet days.

††Five International disturbed days.

△ Loss of record; day omitted for means.

TABLE 5

Hourly Values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

May

2° plus tabular quantities

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	35.0	33.7	32.8	33.3	35.0	36.1	37.4	38.6	38.8	38.1	37.1	36.5	35.6	35.3	35.6
2	35.1	33.9	32.8	33.6	34.9	36.7	38.2	38.6	38.1	36.5	35.8	35.8	35.7	35.7	35.8
3	35.6	34.3	33.2	33.2	34.4	36.7	38.2	39.2	39.1	38.5	37.5	36.7	36.1	36.0	36.0
4	35.1	34.4	34.2	34.0	36.5	37.5	38.0	38.6	37.6	36.8	35.8	35.5	35.7	35.5	35.8
5	35.7	34.7	34.5	35.4	36.5	38.5	40.0	41.4	41.1	40.0	38.3	37.1	36.1	35.5	35.8
6	35.8	34.3	33.1	34.0	35.8	38.5	39.9	41.1	40.4	38.9	37.2	36.2	35.9	35.8	35.4
7†	35.8	35.7	35.7	35.9	37.3	38.9	40.3	41.1	39.9	38.5	37.3	37.1	36.5	35.9	36.1
8	36.5	35.8	35.4	35.6	36.5	37.2	38.3	39.0	39.0	38.6	37.7	37.2	36.3	36.2	36.7
9	35.9	35.9	35.6	35.8	37.2	38.7	40.4	41.5	40.2	39.1	38.1	37.2	37.0	36.2	36.3
10	36.5	35.9	35.5	35.2	36.3	38.3	39.7	40.1	39.8	38.7	37.3	36.2	35.3	35.6	36.0
11	36.0	35.5	34.8	35.6	37.5	37.8	38.9	40.1	39.8	38.1	36.4	35.9	35.9	36.0	36.1
12	36.0	35.2	34.7	35.6	37.3	38.8	39.8	39.9	39.6	38.7	37.8	37.3	37.4	36.1	37.1
13††	36.1	35.7	35.0	36.2	37.5	38.9	40.0	40.7	40.4	38.9	37.6	36.9	37.1	36.1	37.1
14††	34.7	33.3	32.9	33.0	34.7	36.8	38.3	39.9	40.0	38.6	37.1	35.7	35.8	36.1	35.8
15	34.7	34.6	34.3	34.8	37.1	38.9	40.3	41.3	39.3	38.2	37.4	36.9	36.2	35.7	36.0
16	35.4	34.8	34.8	35.9	37.6	39.1	40.4	40.5	40.4	39.4	38.6	37.9	37.0	36.2	36.1
17	36.2	35.8	34.8	34.9	36.2	37.5	38.9	39.1	38.7	38.3	37.7	36.5	36.5	36.3	36.2
18	35.2	35.1	34.8	36.0	37.6	39.2	40.5	41.2	40.2	39.0	37.7	36.2	36.3	36.3	36.6
19	36.2	35.6	35.2	35.9	37.0	38.5	39.8	40.6	40.1	38.7	37.4	36.9	36.6	37.6	36.3
20†	35.9	35.0	34.9	35.5	37.0	39.1	40.4	41.2	41.2	40.5	39.1	37.7	36.3	36.3	36.3
21	35.9	34.9	35.0	36.1	37.9	39.6	40.9	41.2	40.6	39.5	38.2	37.1	36.3	36.3	36.7
22†	36.3	35.7	35.1	35.3	36.5	38.9	40.3	40.2	39.5	38.1	37.2	36.4	36.1	36.3	36.5
23†	36.4	36.0	35.4	36.2	37.3	38.3	39.3	39.7	39.7	39.3	38.3	37.2	36.6	36.6	36.8
24†	36.5	35.5	35.1	35.7	36.6	38.2	39.4	40.3	40.6	39.4	39.0	37.9	37.2	36.8	36.9
25	36.6	35.8	35.2	35.8	37.8	39.6	41.1	41.1	40.3	39.0	38.0	37.2	36.8	36.9	37.6
26††	36.4	35.0	34.1	34.2	35.4	37.2	39.2	40.9	40.6	39.6	37.9	36.5	36.0	35.1	35.0
27	34.9	33.3	33.3	34.6	36.4	38.4	39.3	40.2	39.5	38.4	37.4	36.4	35.6	35.8	36.7
28	36.0	34.9	34.3	34.9	36.8	39.1	40.6	40.2	39.6	38.9	37.4	36.4	36.3	35.8	36.1
29††	35.1	34.0	33.9	34.6	34.3	37.9	40.5	40.5	40.5	39.1	37.4	36.3	35.6	34.3	34.6
30	35.0	34.0	33.6	33.6	34.6	36.0	37.8	38.8	38.5	37.5	36.5	36.5	36.7	36.4	36.4
31††	35.6	35.0	34.0	34.9	35.7	37.0	38.6	39.3	39.2	39.1	37.8	36.5	35.1	34.9	36.1
Mean	35.7	34.9	34.5	35.0	36.4	38.1	39.5	40.2	39.8	38.7	37.5	36.7	36.2	36.0	36.2
Mean†	36.2	35.6	35.2	35.7	36.9	38.7	39.9	40.5	40.2	39.2	38.2	37.3	36.5	36.4	36.5
Mean††	35.6	34.6	34.0	34.6	35.5	37.8	39.3	40.3	40.1	39.1	37.6	36.4	35.9	35.3	36.5

†Five International quiet days.

††Five International disturbed days.

Δ Loss of record; day omitted for means.

TABLE 5

Hourly Values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

May

2° plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
										H. M.		H. M.			
35.7	35.7	35.4	35.7	35.8	35.6	35.4	35.3	35.3	35.8	07 56	39.5	02 00	32.6	6.9	1
35.8	35.8	35.7	35.7	35.4	35.4	35.4	35.3	35.4	35.7	07 00	38.8	01 52	32.5	6.3	2
36.1	36.1	36.0	36.0	35.7	35.6	35.6	35.7	35.4	36.1	07 00	39.2	02 08	33.0	6.2	3
36.1	36.2	36.1	36.1	35.9	35.8	35.7	35.7	35.8	36.0	07 00	38.6	02 00	34.2	4.4	4
36.1	36.1	35.8	35.8	35.5	35.4	35.5	35.4	35.5	36.7	07 00	41.4	02 00	34.5	6.9	5
35.9	36.1	35.9	35.8	35.5	35.5	35.5	35.5	35.7	36.4	07 30	41.4	01 40	33.0	8.4	6
36.8	36.6	36.5	36.2	36.1	36.1	36.4	36.2	36.5	37.1	06 45	41.4	01 00	35.7	5.7	7†
36.7	36.7	36.6	36.3	36.3	36.3	36.2	36.0	35.8	36.8	07 40	39.1	02 00	35.1	4.0	8
37.0	36.9	36.9	36.7	36.3	36.3	36.3	36.3	36.6	37.3	06 58	42.3	02 35	35.5	6.8	9
36.3	36.6	36.3	36.3	36.6	36.3	36.2	36.3	36.2	36.8	07 25	40.4	02 30	34.8	5.6	10
36.8	36.8	36.7	36.6	36.3	36.4	36.4	36.4	36.6	36.8	07 15	40.2	01 35	34.6	5.6	11
37.5	37.3	37.3	37.0	36.3	36.1	36.0	35.9	35.9	37.1	06 00	39.8	02 00	34.7	5.1	12
36.9	36.5	36.5	35.7	35.7	35.3	35.3	35.0	35.4	36.9	07 20	41.1	23 59	34.7	6.4	13††
36.1	35.8	36.0	35.0	36.0	35.8	35.7	35.4	35.3	36.0	07 22	40.2	01 48	32.3	7.9	14††
36.1	36.2	36.2	36.1	35.8	36.1	36.0	36.0	35.7	36.7	07 10	41.6	01 55	34.1	7.5	15
36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	37.1	07 00	40.5	01 30	34.7	5.8	16
36.2	36.3	36.3	36.3	36.3	36.1	36.1	36.1	35.9	36.7	07 05	39.3	02 00	34.8	4.5	17
36.6	36.6	36.4	36.3	36.3	36.2	36.0	36.2	36.3	37.0	07 08	41.5	01 36	34.7	6.8	18
36.4	36.7	36.6	36.4	36.4	36.3	36.2	36.0	36.2	37.1	07 00	40.6	02 00	35.2	5.4	19
36.4	36.4	36.4	36.4	36.3	36.3	36.4	36.6	36.3	37.2	07 30	41.5	02 00	34.9	6.6	20†
36.8	37.0	37.0	36.7	36.7	36.4	36.5	36.4	36.4	37.3	06 45	41.3	01 00	34.9	6.4	21
36.5	36.7	36.8	37.0	37.0	36.8	36.7	36.8	36.7	37.1	06 00	40.3	02 00	35.1	5.2	22†
37.2	37.3	37.3	37.2	37.2	36.9	37.1	36.8	36.8	37.4	07 30	40.1	02 00	35.4	4.7	23†
37.5	37.6	37.2	37.1	36.9	36.8	36.8	36.8	36.8	37.4	07 55	40.7	01 45	35.0	5.7	24†
37.9	37.9	37.9	37.6	38.3	36.5	36.4	36.1	36.2	37.7	06 30	41.5	02 00	35.2	6.3	25
34.9	34.7	34.7	34.7	34.7	34.9	35.0	35.0	35.3	36.1	07 20	41.2	01 35	34.0	7.2	26††
36.7	36.7	36.4	36.1	36.3	36.0	35.6	35.8	35.6	36.5	07 00	40.2	01 20	32.9	7.3	27
36.4	36.3	36.1	36.1	36.0	35.7	35.3	35.4	35.8	36.7	06 00	40.6	02 00	34.3	6.3	28
35.1	35.0	35.0	35.0	35.0	35.1	35.3	35.3	35.1	36.0	08 00	41.3	02 07	33.7	7.6	29††
36.3	36.4	36.4	36.3	36.1	36.0	35.4	35.6	36.3	36.1	07 50	39.1	02 35	33.5	5.6	30
36.3	36.3	36.4	35.0	35.0	34.6	33.5	32.9	32.1	35.8	07 00	39.3	22 35	31.9	7.4	31††
36.4	36.4	36.4	36.2	36.1	36.0	35.9	35.8	35.8	36.7	..	..	..	..	6.2	Mean
36.9	36.9	36.8	36.8	36.7	36.6	36.7	36.6	36.6	..	..	..	..	..	..	Mean†
35.9	35.7	35.7	35.2	35.3	35.2	35.0	34.7	34.6	..	..	..	..	..	..	Mean††

†Five International quiet days.

††Five International disturbed days.

Δ Loss of record; day omitted for means.

TABLE 6

Hourly Values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

2° plus tabular quantities

June

Date	Hours G. M. T.														
	00.	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1††	31.9	31.1	30.8	31.3	34.4	37.2	38.7	38.7	38.9	37.8	36.6	36.1	35.4	35.4	35.9
2	35.0	33.8	33.0	33.3	35.4	37.6	38.6	39.7	39.7	39.2	38.0	37.0	36.1	35.2	35.1
3†	35.1	34.7	36.1	35.0	36.1	36.8	38.9	39.4	40.3	39.4	38.0	36.9	36.4	36.2	36.4
4†	36.1	35.0	33.8	34.1	35.1	35.2	38.9	40.3	40.6	39.6	39.2	38.2	37.6	36.6	36.4
5	36.5	35.4	35.7	40.4	35.5	37.8	39.4	39.9	40.6	40.6	39.0	37.5	36.5	36.4	36.4
6	36.4	35.5	34.8	34.8	36.4	38.5	40.6	41.7	40.8	39.2	38.3	37.9	36.8	36.2	36.4
7††	36.1	34.0	32.2	32.3	33.5	36.5	36.7	36.7	37.6	35.5	32.8	32.4	33.5	33.8	34.5
8	35.2	34.6	34.2	34.6	36.2	37.0	37.9	38.7	39.4	39.3	38.0	38.2	36.2	35.5	36.0
9	35.3	34.8	33.5	33.4	35.5	37.6	38.6	39.4	39.1	38.0	37.6	36.9	36.5	36.3	36.7
10	35.1	33.7	32.4	32.8	34.1	36.0	36.7	38.1	39.0	39.1	38.6	38.1	36.9	36.3	35.9
11	36.2	34.8	33.8	34.0	35.1	36.1	37.5	39.2	39.3	39.2	39.0	37.8	36.5	36.5	36.6
12	36.1	34.3	33.6	34.0	35.1	36.5	37.9	39.0	39.3	38.2	37.5	37.2	37.5	36.6	36.6
13	36.1	35.4	35.1	35.7	37.5	38.1	39.2	39.3	39.3	38.8	37.7	36.8	36.8	36.8	36.8
14	36.1	34.9	34.0	34.1	35.6	37.4	38.7	39.4	39.1	37.7	36.6	36.3	36.3	36.3	36.4
15	35.0	34.5	34.3	35.2	36.6	39.0	40.1	39.1	38.7	37.6	36.2	35.3	35.3	35.9	36.3
16	35.3	34.8	34.5	35.1	36.1	35.1	39.1	39.0	38.6	37.6	36.5	36.1	35.8	35.8	35.1
17†	34.7	33.8	33.5	33.7	34.9	36.9	38.7	39.3	38.4	37.5	36.3	36.1	35.8	35.9	36.2
18†	35.4	34.2	33.5	35.1	37.1	38.9	40.3	41.3	40.4	38.5	36.7	35.8	36.0	36.2	36.7
19	34.7	33.4	33.2	33.6	35.7	37.4	38.6	39.6	40.3	40.0	39.0	38.5	37.5	36.8	37.1
20†	35.5	34.8	34.8	35.5	37.5	38.5	39.5	40.0	39.2	38.5	37.8	37.4	37.2	37.2	36.5
21††	35.4	34.3	33.7	34.6	36.1	37.4	37.6	38.8	38.6	38.9	37.8	38.2	36.0	35.4	36.1
22	32.9	31.8	30.6	32.0	33.4	34.6	37.2	37.8	38.1	37.5	37.2	36.4	35.7	35.7	35.7
23	35.1	34.4	33.4	34.0	34.8	36.4	37.5	38.5	38.9	38.5	37.1	36.1	36.1	35.7	35.7
24	35.3	34.7	34.4	34.8	36.4	37.4	37.1	37.9	38.6	37.8	37.2	36.4	35.8	35.1	35.5
25	35.0	33.7	33.6	33.9	35.0	36.0	37.8	39.2	40.0	39.0	37.8	36.4	36.1	35.2	36.0
26	35.1	33.9	33.6	34.4	36.2	38.6	38.6	39.0	39.0	39.0	38.9	38.1	37.5	36.5	36.0
27	35.5	34.6	33.4	33.4	34.8	37.4	39.0	40.0	39.7	38.6	38.1	37.6	37.5	36.5	36.4
28††	35.4	34.7	34.1	33.9	35.8	37.4	38.6	40.0	39.0	38.6	37.8	36.4	36.2	37.1	37.1
29††	33.0	31.2	29.5	30.4	32.0	32.7	33.4	34.7	34.8	35.0	34.2	33.6	33.0	31.6	32.0
30	34.7	33.6	33.2	33.0	33.7	35.8	38.5	39.0	38.8	37.5	36.2	35.0	34.7	35.3	36.0
Mean	35.2	34.1	33.5	34.1	35.4	36.9	38.3	39.1	39.1	38.4	37.4	36.7	36.2	35.9	36.0
Mean†	35.4	34.5	34.3	34.7	36.1	37.3	39.3	39.9	39.8	38.7	37.6	36.9	36.6	36.4	36.4
Mean††	34.4	33.1	32.1	32.5	34.4	36.3	37.0	37.8	37.8	37.2	36.0	35.3	34.8	34.7	35.1

†Five International quiet days.

††Five International disturbed days.

Δ Loss of record; day omitted for means.

TABLE 6

Hourly Values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

June

2° plus tabular quantities

Hours G.M.T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.	Mag.	
										H. M.		H. M.			
35.8	35.9	35.8	35.2	35.4	35.8	34.8	35.1	35.0	35.4	05 45	40.0	02 00	30.8	9.2	1††
35.0	35.2	35.2	35.2	35.8	35.8	35.8	35.7	35.7	36.1	07 10	40.4	02 20	32.7	7.7	2
36.5	36.5	36.4	36.2	36.4	36.4	36.2	36.4	36.4	36.8	07 50	40.4	02 08	34.0	6.4	3†
36.6	36.5	36.5	36.4	36.4	36.4	36.4	36.4	36.6	36.9	07 50	40.7	02 00	33.8	6.9	4†
36.6	36.6	36.4	36.5	36.6	36.6	36.6	36.6	36.5	37.4	08 58	40.8	02 55	34.0	6.8	5
36.6	36.8	36.8	36.8	36.5	36.5	36.2	36.2	36.1	37.2	07 09	41.8	02 00	34.7	7.1	6
35.2	35.5	35.5	35.5	35.5	35.9	35.6	35.3	35.5	34.9	07 55	37.9	02 30	31.0	6.9	7††
36.5	36.6	36.7	36.6	36.3	36.2	36.3	36.6	36.3	36.6	08 00	39.4	02 00	34.1	5.3	8
36.7	36.7	36.7	36.9	36.6	36.3	36.5	36.3	35.6	36.6	07 23	39.5	02 30	33.0	6.5	9
36.0	36.3	36.3	36.3	35.6	35.5	35.6	35.8	36.0	36.1	09 00	39.4	02 00	32.4	7.0	10
36.8	36.6	36.1	36.4	36.4	35.1	36.2	36.1	36.1	36.6	07 30	39.6	02 00	33.7	5.9	11
36.8	36.6	36.4	36.4	36.2	36.1	36.1	36.2	36.4	36.5	07 45	39.7	02 00	33.6	6.1	12
37.0	37.1	36.8	36.4	36.3	36.3	36.3	36.1	36.1	37.0	07 10	39.8	02 00	35.1	4.7	13
36.6	36.9	36.7	36.4	36.4	36.2	36.2	35.6	35.3	36.5	07 15	39.5	02 00	34.0	5.5	14
36.6	36.6	36.4	36.2	36.0	36.0	36.0	35.9	35.9	36.4	05 25	41.5	01 30	33.8	7.7	15
35.9	36.1	36.2	35.9	35.8	35.5	35.2	35.2	35.1	36.1	06 15	39.4	01 22	34.1	5.3	16
36.3	36.3	36.2	36.2	36.1	35.9	35.9	35.8	35.6	36.1	06 46	39.4	02 00	33.5	5.9	17†
36.5	36.4	36.1	36.1	35.8	35.1	35.1	34.8	34.8	36.5	07 15	41.4	02 00	33.5	7.9	18†
37.1	37.2	36.8	36.1	36.0	35.8	35.7	35.4	35.5	36.7	08 00	40.3	02 20	36.5	3.8	19
36.9	36.9	36.4	36.2	36.1	36.0	35.8	35.7	35.3	36.8	06 35	40.3	01 25	33.7	6.6	20†
36.1	36.0	36.0	35.8	34.8	34.6	33.6	33.7	34.0	36.0	08 35	40.0	23 56	33.0	7.0	21††
36.0	36.1	36.0	36.0	36.1	36.0	35.7	35.7	35.3	35.4	07 40	38.5	01 50	30.5	8.0	22
36.0	36.0	36.1	36.0	35.7	35.8	35.8	35.8	35.4	36.0	08 00	38.9	02 30	33.2	5.7	23
36.1	36.1	36.1	36.1	36.0	35.8	35.7	36.0	35.5	36.2	07 55	38.8	02 25	34.3	4.5	24
36.0	36.1	36.0	35.8	36.0	36.0	36.1	36.1	35.8	36.2	07 40	40.2	01 45	33.4	6.8	25
36.1	36.4	36.4	36.1	36.0	36.0	36.0	36.0	35.8	36.6	07 00	39.0	01 45	33.4	5.6	26
36.8	36.8	36.5	36.5	36.4	36.1	36.0	36.0	36.0	36.7	07 30	40.2	02 12	33.2	7.0	27
37.2	37.1	36.7	36.5	36.4	35.8	34.4	34.1	33.6	36.4	07 18	41.1	23 59	32.9	8.2	28††
31.9	33.2	33.7	34.8	35.4	35.8	36.1	35.8	35.3	33.5	20 45	36.2	02 08	29.1	7.1	29††
36.4	36.7	36.4	36.2	36.1	36.1	36.1	35.8	35.8	35.9	07 02	39.2	02 30	32.9	6.3	30
36.2	36.3	36.2	36.1	36.0	35.9	35.8	35.7	35.6	36.3	..	..	..	..	6.5	Mean
36.6	36.5	36.3	36.2	36.2	36.0	35.9	35.8	35.7	..	..	..	..	..	..	Mean†
35.2	35.5	35.5	35.6	35.5	35.6	34.9	34.8	34.7	..	..	..	..	..	..	Mean††

†Five International quiet days.

††Five International disturbed days.

△Loss of record - day omitted for means.

TABLE 7

Hourly Values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

January

39,000 γ plus tabular quantities

Date	Hours G. M. T.															
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
1††	390	396	411	407	430	385	433	451	476	489	484	459	464	446	428	
2	428	442	462	461	478	505	523	570	572	553	526	505	471	456	446	
3†	479	483	489	505	525	544	567	577	581	579	570	548	526	508	500	
4†	496	498	506	530	549	580	611	611	596	581	574	554	539	526	521	
5†	523	510	515	544	558	567	591	595	587	578	577	573	561	541	538	
6	524	533	548	575	594	627	656	665	642	622	605	583	554	537	529	
7†	532	542	564	591	612	638	662	654	613	583	573	565	556	544	532	
8†	528	534	566	599	649	700	709	686	645	594	558	551	551	544	533	
9	532	537	560	589	637	689	710	680	626	581	587	578	560	538	518	
10	504	500	496	546	600	659	679	664	637	594	562	545	545	536	511	
11	521	536	563	592	631	695	707	689	646	594	555	557	569	565	548	
12	524	530	533	559	634	670	672	659	627	621	601	578	554	538	531	
13	525	527	535	553	594	628	650	661	640	634	618	593	570	553	546	
14	525	527	544	572	614	657	662	702	688	653	607	581	560	541	535	
15	528	521	531	549	599	678	705	664	616	584	550	540	549	523	488	
16	522	528	547	577	609	658	691	673	675	666	622	590	577	555	550	
17††	537	529	524	533	562	583	545	665	646	609	573	534	524	525	526	
18††	522	512	517	521	556	595	608	624	615	577	530	516	507	474	468	
19	497	506	524	553	596	642	628	605	587	570	552	545	536	514	515	
20	522	531	551	577	602	651	690	713	652	611	570	560	542	523	536	
21††	520	538	531	525	511	507	492	487	527	532	519	517	514	513	512	
22	513	518	543	581	612	671	684	658	607	569	553	548	531	511	483	
23††	514	515	535	568	591	652	647	620	575	561	541	537	531	520	530	
24	514	517	544	579	622	660	684	686	642	605	573	563	526	515	523	
25	533	531	543	568	619	650	663	684	680	639	612	599	581	563	555	
26	527	525	546	549	588	650	654	633	597	580	569	559	549	536	528	
27	523	527	545	569	595	632	645	639	624	596	577	573	571	562	555	
28	550	548	554	578	638	706	752	733	699	638	593	581	569	563	555	
29	552	544	547	566	626	673	706	689	640	621	607	595	575	558	550	
30	554	557	575	602	652	686	731	723	679	645	616	601	587	569	561	
31	545	548	564	595	623	648	674	687	642	604	588	582	581	577	572	
Mean	516	519	533	555	591	629	646	647	622	596	572	558	546	532	523	
Mean†	514	513	520	554	559	606	628	625	604	583	570	558	547	533	525	
Mean††	497	498	504	511	530	544	545	569	568	554	529	513	508	496	493	

†Five International quiet days.

††Five International disturbed days.

△Loss of record; day omitted for means.

TABLE 7

Hourly Values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

January

39,000 γ plus tabular quantities

Hours G.M.T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
416	426	436	417	393	393	410	427	427	429	09 50	507	05 06	358	149	1††
445	451	460	467	469	467	470	470	472	482	07 10	503	00 01	424	159	2
495	491	490	491	492	493	492	493	495	517	08 20	582	01 48	475	107	3†
518	518	520	520	520	522	522	525	530	540	06 06	616	00 04	495	121	4†
532	532	524	526	533	532	530	529	528	547	05 54	621	01 33	500	121	5†
521	520	520	524	530	532	531	530	531	564	07 12	673	16 51	517	156	6
535	535	532	528	528	527	529	528	526	564	06 18	667	23 24	525	142	7†
534	533	529	527	530	532	536	534	533	572	05 37	722	18 00	526	196	8†
499	490	503	503	522	523	521	516	514	563	06 15	714	15 38	493	221	9
512	520	519	526	529	521	524	528	525	553	05 58	685	01 38	489	196	10
548	544	544	534	516	504	513	526	531	572	05 24	730	23 06	500	230	11
535	533	530	540	534	534	539	537	531	569	05 36	710	06 06	523	187	12
541	537	545	545	546	537	540	527	525	570	07 04	677	22 42	523	154	13
531	522	516	521	529	532	534	532	528	571	07 22	712	17 26	512	200	14
497	508	507	512	516	528	530	522	522	553	05 44	718	14 08	484	234	15
544	537	534	530	530	530	525	526	535	576	06 04	718	22 08	521	197	16
518	518	514	520	521	521	526	518	509	545	06 48	681	23 22	507	174	17††
467	459	459	457	478	493	494	493	491	518	07 42	655	17 38	455	200	18††
504	498	485	484	502	511	516	516	522	538	05 09	654	17 40	472	182	19
526	540	536	528	530	531	533	543	523	568	06 06	730	23 33	514	216	20
507	507	511	507	496	499	510	509	508	512	05 10	557	04 34	456	101	21††
498	508	513	517	513	521	524	523	517	551	05 45	711	13 52	481	230	22
510	515	502	515	518	511	508	515	515	544	05 02	662	16 46	499	163	23††
520	531	531	532	535	537	537	537	534	564	06 18	694	12 28	510	184	24
499	495	476	490	505	512	519	519	520	565	06 42	691	17 08	471	220	25
522	513	508	506	512	526	530	521	518	552	06 22	677	17 34	503	174	26
549	544	538	534	540	543	543	543	556	568	06 38	654	00 02	522	132	27
550	555	554	545	547	545	546	554	555	592	05 58	761	19 57	542	219	28
541	528	525	530	547	563	562	559	557	582	06 03	718	17 06	523	195	29
553	551	551	547	543	544	547	550	545	595	06 25	743	19 16	541	202	30
565	560	549	547	548	547	550	553	553	583	06 53	696	19 48	544	152	31
517	517	515	515	518	520	522	523	522	552	..	..	..	..	178	Mean
523	522	519	518	521	521	522	522	522	..	..	..	..	..	..	Mean†
485	485	484	483	481	483	490	492	490	..	..	..	..	..	..	Mean††

†Five International quiet days.

††Five International disturbed days.

ΔLoss or record; day omitted means.

TABLE 8

Hourly Values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

39,000 γ plus tabular quantities

February

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	552	561	584	609	638	657	649	642	621	593	572	577	574	553	543
2	551	558	578	600	635	652	647	622	617	593	575	574	573	560	546
3†	549	560	589	613	619	616	614	610	598	592	599	597	597	566	559
4	550	569	593	618	641	652	652	627	611	601	595	588	580	586	570
5	513	517	540	566	584	591	607	548	543	553	572	563	544	513	524
6††	513	516	544	579	638	613	600	551	511	488	516	528	528	517	500
7	521	526	554	611	661	670	656	618	563	520	526	537	528	532	527
8	521	518	555	623	677	727	704	650	586	534	489	512	529	521	520
9	504	502	533	602	613	644	644	617	571	528	524	528	535	542	533
10	509	514	547	593	649	662	663	656	620	586	557	547	546	537	523
11††	486	486	549	693	679	674	621	523	296	235	154	46	82	112	143
12††	389	387	404	433	459	516	528	560	493	478	457	448	457	450	446
13	469	480	502	542	588	615	611	603	588	573	556	552	527	494	484
14	491	485	492	505	514	562	579	590	607	586	556	537	524	507	486
15†	509	511	525	539	566	586	607	613	611	595	578	564	569	552	548
16	548	553	569	608	653	675	657	634	610	592	589	591	585	555	535
17††	572	583	605	644	653	617	539	523	480	460	490	483	499	471	431
18††	474	480	519	539	536	550	557	511	466	484	502	502	504	488	480
19	475	483	519	541	563	580	576	505	478	478	497	507	502	487	480
20	505	506	500	533	572	613	589	505	530	512	502	501	509	498	473
21	473	467	484	520	565	582	546	533	482	501	504	508	497	481	454
22	479	473	482	524	464	583	595	505	551	530	520	509	494	489	484
23	484	486	508	535	577	599	623	633	577	535	508	493	498	497	490
24†	488	490	506	533	577	633	652	651	617	579	547	513	502	506	501
25†	501	502	518	555	603	664	667	626	604	560	539	534	538	527	513
26†	508	509	529	567	610	643	681	645	610	584	560	550	543	535	523
27	502	506	527	564	606	632	646	638	613	589	578	571	559	537	526
28	498	500	532	579	613	640	633	632	569	534	534	530	513	517	502
Mean . .	505	508	532	570	602	623	619	596	558	535	525	518	516	505	494
Mean† . .	511	514	533	561	595	628	644	629	608	582	565	553	550	537	529
Mean†† . .	487	490	524	556	593	594	569	534	449	429	424	401	414	408	400

*Tabular quantity plus 38000 γ .

†Five International quiet days.

††Five International disturbed days.

△Loss of record; day omitted for means.

TABLE 8

Hourly Values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

February

39,000 γ plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
537	533	532	532	537	542	544	546	547	574	05 27	671	18 12	529	142	1
544	547	542	540	545	547	548	549	549	575	05 33	662	17 20	539	123	2
557	557	555	554	555	557	559	557	553	579	03 20	627	23 50	545	82	3†
547	537	537	542	532	518	501	506	508	573	06 17	664	21 14	498	166	4
519	505	500	498	508	522	503	491	504	535	05 45	658	22 05	486	172	5
503	478	479	506	509	515	513	526	521	529	04 00	648	16 26	468	180	6††
516	510	513	511	518	530	533	529	523	551	04 30	690	15 49	501	189	7
499	483	513	513	510	508	518	508	509	551	05 08	744	15 50	474	270	8
522	502	486	497	517	517	506	504	502	541	05 26	658	16 56	484	174	9
502	477	486	490	480	491	475	483	487	545	04 51	677	16 26	469	208	10
475	211	291	324	323	299	330	335	359	351	03 38	812	10 42	970*	842	11††
413	453	455	466	464	466	468	474	466	461	05 57	630	01 52	373	257	12††
486	483	466	477	490	502	495	494	496	524	04 59	624	17 10	464	160	13
493	499	499	484	497	502	501	504	509	521	07 45	616	17 58	480	136	14
536	534	552	549	548	548	543	542	545	557	07 22	619	00 06	508	111	15†
520	513	540	542	542	542	539	541	560	575	05 02	678	15 54	599	169	16
448	463	461	461	456	475	486	475	479	511	04 34	667	14 12	422	245	17††
477	475	465	461	467	479	469	477	477	493	05 48	592	18 50	454	138	18††
480	473	475	479	472	477	496	489	505	501	04 40	604	07 51	466	138	19
455	473	475	470	457	451	467	467	482	504	05 15	642	20 22	445	197	20
444	453	456	456	467	457	472	493	487	491	04 36	609	14 50	439	170	21
472	465	472	486	476	474	486	484	481	506	05 51	620	01 48	460	160	22
486	487	492	493	484	483	486	486	487	518	06 42	655	19 32	480	175	23
499	497	497	501	502	499	499	498	500	533	06 39	663	00 19	486	177	24†
510	507	506	507	508	504	506	509	509	542	05 28	682	00 52	499	183	25†
518	517	516	512	511	510	507	507	505	550	06 17	694	23 56	500	194	26†
520	518	513	512	500	491	495	503	499	548	05 54	648	20 37	487	161	27
498	497	492	499	506	506	505	502	500	535	06 53	652	17 00	490	162	28
490	487	492	495	496	497	498	499	502	528	..	..	..	..	196	Mean
524	522	525	525	525	524	523	525	522	..	..	..	..	..	..	Mean†
409	416	430	444	444	447	453	457	460	..	..	..	..	..	..	Mean††

*Tabular quantity plus 38000 γ .

†Five International quiet days.

††Five International disturbed days.

ΔLoss of record; day omitted for means.

TABLE 9

Hourly Values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

March

39,000 γ plus tabular quantities

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1†	499	501	517	549	612	643	641	626	585	570	557	550	541	521	506
2†	501	506	528	559	612	652	640	592	555	530	527	520	530	521	513
3	515	523	555	557	649	679	665	629	590	547	539	527	529	525	521
4	483	483	495	529	593	574	534	524	508	504	491	485	485	480	464
5††	485	489	502	527	578	592	660	585	470	451	433	468	475	482	474
6	481	483	493	534	529	565	594	576	544	527	511	490	476	467	466
7	474	476	512	550	595	609	620	602	567	528	519	516	499	485	471
8	473	472	482	525	543	584	606	588	573	526	494	502	489	498	490
9	483	473	473	517	570	615	634	584	563	543	507	493	499	501	489
10	487	485	494	511	561	595	626	634	606	583	537	503	485	484	476
11	478	485	502	548	589	622	642	637	612	582	563	551	523	491	474
12††	482	462	452	465	497	534	543	519	488	447	462	449	433	411	404
13††	455	461	480	508	537	567	551	532	503	467	454	424	404	389	386
14	435	442	456	481	517	540	557	566	554	534	516	509	510	501	516
15	497	500	522	574	601	631	636	627	606	551	527	516	481	462	451
16†	468	467	478	502	530	595	608	607	582	554	535	523	517	510	498
17	488	485	502	555	602	656	613	602	609	521	463	491	499	489	459
18	475	481	502	529	564	626	623	603	559	559	524	502	496	465	457
19††	456	461	490	519	549	563	589	564	550	542	525	513	485	447	421
20††	492	485	499	527	566	629	653	619	622	574	541	526	506	491	473
21	475	482	503	518	598	622	619	599	564	527	517	513	520	512	492
22	474	457	460	484	546	593	604	593	554	528	505	489	496	495	476
23	465	482	485	513	603	626	658	654	597	547	509	512	510	490	467
24	475	471	488	543	614	638	651	608	574	556	527	517	500	497	486
25	468	464	493	518	584	643	682	637	575	531	515	503	499	474	442
26	494	492	516	548	621	661	672	676	639	621	601	571	515	508	497
27	468	477	486	532	568	599	622	623	603	572	531	527	526	514	498
28†	496	495	501	534	609	660	676	678	658	596	566	547	528	519	509
29†	486	490	506	545	585	651	659	653	635	598	574	560	547	531	517
30	510	507	523	572	639	683	699	668	662	593	549	557	531	494	452
31	457	455	484	528	563	630	594	567	543	532	520	516	517	507	493
Mean	470	470	496	529	578	615	626	606	576	543	521	512	502	489	475
Mean†	490	492	506	538	590	640	645	631	603	570	552	540	533	520	509
Mean††	474	472	481	509	549	577	589	564	527	496	483	476	461	444	432

†Five International quiet days.

††Five International disturbed days.

△Loss of record; day omitted for means.

TABLE 9

Hourly Values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

March

39,000 γ plus tabular quantities

Hours G.M.T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
504	503	501	499	499	498	498	497	502	538	04 33	650	18 10	496	154	1†
511	505	505	504	508	506	508	511	511	536	04 54	657	17 56	500	157	2†
517	507	505	496	501	469	480	480	470	541	05 03	686	20 41	455	231	3
465	461	467	460	461	479	486	488	484	498	05 45	615	19 00	455	160	4
466	458	457	457	466	480	481	478	482	496	06 30	716	08 05	382	334	5††
450	461	459	460	477	474	483	489	475	499	05 45	646	14 57	445	201	6
471	483	481	474	472	478	469	470	475	512	05 58	651	13 54	466	185	7
486	486	486	485	486	484	490	490	485	509	05 57	629	11 36	468	161	8
475	474	478	486	487	497	498	498	491	514	05 30	651	01 36	467	184	9
476	472	469	473	474	474	476	473	475	514	07 12	644	17 44	459	185	10
472	465	441	424	436	464	458	468	475	517	06 30	646	18 18	421	225	11
429	433	427	439	433	439	437	449	461	458	05 24	579	13 50	398	181	12††
356	335	358	368	386	404	417	428	434	442	04 59	582	15 38	326	256	13††
482	455	469	474	474	475	486	485	489	497	07 08	570	16 12	426	144	14
440	433	433	440	456	466	466	468	467	510	06 28	670	16 19	429	241	15
495	490	490	481	474	482	483	487	487	514	05 25	627	18 36	463	164	16†
444	451	462	452	456	483	481	484	479	509	04 52	668	14 48	439	229	17
455	453	457	433	452	434	427	444	451	499	05 17	635	09 02	417	218	18
431	416	399	413	426	461	462	455	457	483	04 54	614	16 52	392	222	19††
449	453	466	464	469	482	504	478	472	519	06 18	686	15 15	446	240	20††
475	468	455	452	474	469	462	474	481	511	06 06	630	02 22	433	197	21
471	470	470	470	473	480	478	473	474	501	05 50	611	17 52	466	145	22
456	462	456	454	469	475	487	484	482	515	06 03	663	17 38	450	213	23
469	445	472	448	443	447	455	459	462	510	06 18	660	16 27	434	226	24
439	493	472	474	484	487	489	491	496	515	06 14	697	14 49	428	269	25
474	455	436	449	452	469	474	470	469	533	06 45	683	17 06	429	254	26
496	488	487	488	488	484	482	495	497	524	06 52	631	21 32	458	173	27
502	500	493	492	487	493	493	488	490	534	06 42	693	17 09	483	210	28†
513	510	502	502	509	504	501	496	503	545	06 18	675	22 08	483	192	29†
412	424	426	440	439	439	449	460	460	525	05 50	715	15 23	401	314	30
484	471	468	462	454	470	478	471	468	505	05 25	649	18 56	453	196	31
467	464	463	462	466	472	475	477	478	510	..	..	..	..	208	Mean
505	502	498	496	495	497	497	496	499	..	..	..	..	..	..	Mean†
426	419	421	428	436	453	460	458	461	..	..	..	..	..	..	Mean††

†Five International quiet days.

††Five International disturbed days.

ΔLoss of record; day omitted for means.

TABLE 10

Hourly Values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

April

39,000 γ plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	479	478	493	534	570	601	613	602	570	545	528	527	526	506	485
2††	483	484	520	566	630	655	713	649	581	556	511	486	491	492	481
3	470	481	520	552	610	660	644	635	601	565	540	527	517	509	497
4††	484	489	534	588	663	687	702	657	642	574	540	529	528	496	496
5	462	458	476	535	571	599	587	582	556	540	497	483	479	476	457
6	457	456	480	527	611	660	671	647	605	553	517	500	511	498	492
7	487	485	495	529	585	600	601	622	605	531	514	498	500	485	468
8	470	469	478	514	567	648	684	680	641	588	543	517	515	513	499
9	484	483	496	540	600	627	650	654	627	597	570	546	529	518	411
10†	478	480	506	548	602	667	700	698	663	618	576	552	540	529	519
11†	516	516	531	576	634	680	695	685	654	603	559	545	545	534	521
12†	520	520	539	575	623	676	706	702	670	627	592	573	560	550	542
13†	515	519	545	571	651	686	704	689	698	605	581	566	560	552	542
14	514	516	537	573	639	661	673	676	654	631	583	540	547	537	519
15	485	503	532	599	612	615	654	631	594	536	523	523	510	498	487
16††	478	473	489	536	591	667	672	627	548	528	484	477	454	453	453
17††	481	470	475	486	549	558	572	578	545	510	509	508	504	485	459
18††	484	479	501	518	539	587	615	595	574	542	491	460	450	435	435
19	464	460	479	528	580	633	642	649	623	587	517	502	509	498	483
20	476	478	511	555	632	634	668	651	617	580	552	532	512	498	484
21	489	486	521	566	606	662	654	646	628	588	559	546	527	515	511
22†	492	483	490	547	614	647	654	619	605	569	536	518	518	513	503
23	492	500	526	573	624	662	667	658	612	591	574	559	537	519	503
24	490	491	508	557	591	606	595	582	548	520	503	497	497	486	479
25	494	506	539	580	604	649	655	642	624	595	564	543	537	528	515
26	508	514	546	590	648	685	688	666	633	601	575	566	556	543	539
27	497	507	530	573	616	651	661	642	615	597	583	568	554	535	522
28	484	484	512	555	592	597	616	619	602	565	517	502	482	468	448
29	470	471	499	535	545	586	572	558	558	526	517	498	472	473	472
30	478	475	495	552	611	642	657	618	605	559	552	523	509	494	483
Mean . .	486	487	510	553	604	640	653	639	608	571	540	527	516	505	490
Mean† . .	504	504	522	563	625	671	692	679	646	604	569	551	545	536	525
Mean†† . .	482	479	504	539	594	631	655	621	578	542	507	492	485	472	465

†Five International quiet days.

††Five International disturbed days.

△Loss of record ; day omitted for means.

TABLE 10

Hourly Values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

April

39,000 γ plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
479	472	471	474	472	486	481	478	485	515	06 09	644	16 32	466	178	1
476	472	480	484	484	484	485	473	470	525	06 18	734	15 48	466	268	2††
491	494	498	496	492	488	492	499	489	532	04 50	674	20 34	483	191	3
459	441	431	418	413	424	434	432	407	522	06 03	723	18 40	403	320	4††
447	442	442	446	458	472	471	469	463	495	04 53	618	16 20	437	181	5
474	450	440	441	440	463	466	464	472	512	06 07	686	16 33	435	251	6
457	450	449	461	467	475	473	471	472	507	06 59	638	16 34	445	193	7
492	485	480	479	483	480	482	487	487	528	06 34	689	20 49	468	221	8
507	507	502	500	490	479	471	468	470	530	06 43	660	22 10	463	197	9
514	510	511	509	511	515	514	513	514	554	06 14	713	18 16	477	236	10†
518	519	517	518	518	522	525	522	519	561	06 24	701	17 08	515	186	11†
537	528	525	526	525	525	527	517	515	571	05 58	711	22 06	512	199	12†
534	530	525	523	521	514	515	517	516	567	06 47	710	20 22	513	197	13†
495	494	501	501	504	500	495	496	498	553	06 32	686	14 34	485	201	14
484	482	483	481	481	487	488	488	486	528	05 53	681	19 45	476	205	15
461	464	465	443	456	480	482	471	474	505	05 52	683	17 40	438	245	16††
471	463	444	430	472	460	455	460	486	493	05 36	599	18 26	420	179	17††
435	446	441	441	453	456	467	466	459	490	05 52	635	13 22	424	211	18††
470	456	461	467	475	483	475	473	474	516	06 54	658	16 09	448	210	19
480	480	481	485	489	484	489	495	496	532	06 00	686	15 20	475	211	20
500	487	493	484	484	487	488	497	496	538	05 33	674	16 12	481	193	21
498	497	497	496	496	497	498	496	492	532	05 23	665	18 54	480	185	22†
493	472	453	454	460	470	473	479	484	535	05 30	672	17 22	449	223	23
470	472	468	473	476	482	485	488	486	510	05 04	619	15 20	466	153	24
513	514	512	511	511	514	511	511	508	549	05 37	679	17 50	488	191	25
531	518	500	501	490	520	516	510	503	560	05 25	694	18 13	481	213	26
516	514	510	495	481	488	499	499	490	548	05 43	676	19 59	445	231	27
449	443	452	463	454	453	453	468	469	506	06 30	640	14 26	441	199	28
468	466	464	475	469	469	478	483	483	500	05 38	617	16 44	448	169	29
479	472	482	472	469	481	482	471	470	522	05 58	678	19 02	463	215	30
487	481	479	478	480	485	486	485	486	528	..	..	..	..	208	Mean
520	517	515	514	514	515	516	513	511	..	..	..	..	..	..	Mean†
460	457	452	443	456	456	465	460	471	..	..	..	..	..	..	Mean††

†Five International quiet days.

††Five International disturbed days.

Δ Loss of record ; day omitted for means.

TABLE II

Hourly Values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

May

39,000 γ plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	472	468	497	535	585	617	628	632	610	560	539	518	506	494	489
2	481	482	514	507	630	664	665	632	574	543	528	515	513	509	498
3	480	488	518	572	628	664	674	655	612	572	537	526	531	527	515
4	485	493	522	580	649	653	644	641	590	537	515	515	522	516	509
5	495	495	527	567	601	663	687	679	645	609	574	556	545	531	519
6	491	482	501	551	638	697	698	693	650	603	561	542	529	521	509
7†	494	496	509	575	635	680	711	712	672	627	584	563	544	536	524
8	523	524	537	580	633	661	688	694	672	629	588	566	553	546	538
9	512	509	517	554	594	634	658	663	632	615	587	565	560	545	530
10	508	503	506	541	590	628	659	639	598	568	541	511	497	494	496
11	496	506	521	551	579	605	626	637	593	555	519	514	523	517	509
12	499	518	551	590	632	647	643	629	611	593	582	565	548	541	537
13††	503	497	516	586	606	603	598	595	575	562	548	519	503	481	486
14††	473	467	476	505	521	558	543	562	527	498	495	484	488	480	482
15	469	469	477	519	563	604	580	580	557	548	542	511	493	482	468
16	482	478	487	521	557	596	607	586	571	545	515	515	513	508	497
17	486	484	506	536	579	580	596	598	579	571	551	532	515	502	494
18	495	497	513	528	570	610	620	633	606	565	524	493	507	510	499
19	488	494	511	549	591	635	639	612	590	564	539	521	512	511	501
20†	496	507	529	556	593	621	638	632	625	596	556	534	524	518	514
21	502	509	518	552	583	603	636	641	618	594	563	544	532	524	518
22†	513	513	521	532	600	654	673	672	652	615	572	546	533	529	525
23†	523	529	540	565	598	624	649	649	632	610	581	560	545	541	532
24†	528	532	548	586	623	661	670	665	650	623	590	560	546	542	535
25	523	538	561	598	646	674	687	673	651	617	581	561	559	558	551
26††	521	511	519	525	563	617	658	657	633	592	542	510	475	462	449
27	477	491	514	547	579	611	624	617	589	548	528	507	484	489	492
28	476	479	495	524	570	612	652	637	608	576	535	518	512	501	494
29††	491	498	501	545	554	628	689	648	605	538	428	389	388	389	384
30	454	454	459	480	499	555	600	611	601	570	541	516	494	488	477
31††	485	484	493	513	549	571	585	596	572	545	508	489	483	472	470
Mean	494	497	513	549	592	627	643	638	610	577	545	525	515	509	500
Mean†	511	515	529	563	610	648	668	666	646	614	577	553	538	533	526
Mean††	495	491	501	535	559	595	615	612	582	547	504	478	467	457	448

†Five International quiet days.

††Five International disturbed days.

△Loss of record ; day omitted for means.

TABLE II

Hourly Values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

May

39,000 γ plus tabular quantities

Hours G.M.T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
485	483	473	486	490	490	484	478	481	521	07 07	643	01 02	466	177	1
494	489	487	485	483	490	482	481	484	529	05 46	687	19 00	479	208	2
559	509	507	507	501	502	499	496	493	543	06 14	680	00 04	479	201	3
503	502	501	501	499	499	494	489	496	536	04 22	663	21 52	482	181	4
513	512	509	505	493	498	493	502	495	551	06 02	693	19 22	486	207	5
500	501	500	499	498	497	496	496	494	548	06 14	706	20 06	481	225	6
522	519	517	514	516	519	515	519	523	564	06 41	724	00 12	492	232	7†
518	510	508	510	516	518	510	515	515	565	07 37	700	21 24	503	197	8
530	524	522	518	516	517	518	520	514	556	06 54	710	01 15	507	203	9
492	482	486	484	499	496	495	494	486	529	06 17	671	17 49	480	191	10
498	496	496	498	498	496	496	498	497	530	06 27	652	17 34	493	159	11
530	518	518	515	495	480	484	483	501	550	06 02	652	20 18	470	182	12
475	468	469	453	460	458	467	458	467	515	06 03	622	19 23	446	176	13††
464	461	458	455	481	477	472	471	470	490	05 07	595	14 02	441	154	14††
467	476	480	482	486	482	481	479	482	507	04 30	629	14 58	463	166	15
484	482	482	482	486	490	485	488	489	514	05 42	635	16 42	475	160	16
480	479	479	481	487	484	490	489	495	520	04 58	617	15 22	473	144	17
493	494	492	480	482	481	482	485	487	523	06 58	663	18 02	474	189	18
499	501	498	497	510	499	498	497	497	531	05 50	655	00 22	485	170	19
510	509	511	508	506	511	508	509	505	542	06 16	641	00 08	490	151	20†
517	512	513	515	515	515	516	513	515	545	07 17	647	00 05	497	150	21
525	524	520	523	526	523	525	526	527	557	06 10	678	01 07	508	170	22†
532	535	533	533	528	529	530	528	528	561	06 26	656	01 05	520	136	23†
528	527	526	525	528	528	528	529	528	567	05 34	675	23 50	522	153	24†
554	555	553	556	548	544	536	518	527	578	06 18	695	22 16	513	182	25
430	431	417	431	447	456	459	471	477	511	06 26	682	17 04	412	270	26††
486	486	483	474	483	471	468	475	478	517	05 53	642	20 32	465	177	27
491	483	485	485	487	484	485	487	488	523	06 19	671	00 36	461	210	28
389	388	405	408	415	430	442	444	454	477	05 56	718	10 38	362	356	29††
471	474	485	478	477	479	483	492	489	505	07 48	620	01 20	448	172	30
478	483	488	434	403	361	346	367	381	481	07 12	608	21 00	336	272	31††
496	494	494	491	492	490	489	490	492	532	..	..	..	..	191	Mean
523	523	521	521	521	522	521	522	522	..	..	..	..	..	..	Mean†
447	446	447	436	441	436	437	442	450	..	..	..	..	..	..	Mean††

†Five International quiet days.

††Five International disturbed days.

△Loss of record ; day omitted for means.

TABLE 12

Hourly Values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

June

39,000 γ plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1††	355	371	407	436	459	544	567	548	533	522	481	459	455	454	448
2	455	474	480	510	571	593	575	587	582	562	539	513	461	440	428
3†	461	468	486	528	570	595	618	620	604	580	540	508	491	496	494
4†	495	504	531	571	615	633	656	647	633	609	581	557	540	529	519
5	511	508	513	548	601	643	649	660	648	629	584	559	539	532	528
6	522	525	535	561	605	659	663	673	648	596	573	556	544	537	532
7††	495	499	448	369	350	521	543	543	556	455	364	367	403	411	415
8	465	472	486	518	561	598	624	636	623	591	554	532	514	502	494
9	489	506	517	555	606	650	664	646	606	575	541	523	510	503	501
10	449	442	435	447	485	535	565	587	588	575	526	498	477	478	471
11	485	486	488	511	562	572	609	631	491	569	543	512	498	511	500
12	496	504	522	553	596	617	606	605	604	561	547	524	518	506	501
13	504	509	532	570	613	626	634	603	577	561	548	537	538	535	526
14	509	516	533	552	586	619	625	610	595	567	549	530	522	526	521
15	515	521	538	584	615	656	643	619	564	532	497	482	498	504	499
16	499	503	525	553	580	594	603	586	552	541	511	494	496	498	490
17†	502	514	530	561	602	629	630	614	594	571	543	528	523	524	522
18†	518	528	549	578	600	611	617	618	610	586	566	546	546	550	545
19	519	527	540	566	611	634	659	657	640	605	586	554	549	544	541
20†	533	543	547	567	605	626	638	624	585	559	558	555	553	549	538
21††	533	539	547	567	589	567	549	624	585	563	534	504	410	431	447
22	443	456	468	488	517	515	520	513	511	502	496	500	493	479	468
23	487	476	483	529	553	595	574	579	594	584	562	536	510	500	494
24	499	510	533	565	594	617	588	580	566	538	526	519	505	481	469
25	486	499	518	538	571	566	598	614	625	597	556	530	515	505	504
26	498	502	509	525	571	626	614	608	602	590	577	554	520	521	512
27	504	505	519	549	585	626	627	624	611	596	574	545	527	524	518
28††	502	513	548	587	627	634	620	619	574	551	549	519	516	522	518
29††	370	357	359	350	381	431	414	393	391	400	392	380	356	343	331
30	431	444	461	492	523	569	592	584	558	524	502	483	482	491	483
Mean	484	491	503	528	563	597	603	602	585	559	533	513	500	498	492
Mean†	502	511	529	561	598	617	632	625	605	581	558	539	531	530	524
Mean††	451	456	462	462	481	539	539	545	528	498	464	446	428	432	432

†Five International quiet days.

††Five International disturbed days.

△Loss of record ; day omitted for means.

TABLE 12

Hourly Values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

June

39,000 γ plus tabular quantities

Hours G.M.T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
446	451	451	437	460	454	444	446	444	461	05 40	683	00 22	335	348	1††
416	418	430	440	451	454	459	459	459	490	04 14	620	15 12	412	208	2
493	495	492	493	495	500	502	499	495	522	06 58	632	00 20	460	172	3†
515	515	515	513	514	517	516	516	5 5	552	06 13	661	00 20	465	196	4†
527	522	516	519	522	521	522	520	120	556	07 41	665	01 15	506	159	5
527	525	526	526	522	523	507	499	507	558	05 11	693	21 40	492	201	6
433	436	427	431	449	455	454	458	462	448	07 10	604	03 46	269	335	7††
492	495	501	499	494	498	494	490	486	526	07 17	639	00 01	464	175	8
498	492	488	506	510	501	514	495	476	536	06 06	672	23 59	448	224	9
472	469	469	472	468	472	475	382	490	493	07 25	605	02 43	411	194	10
498	494	485	496	500	501	495	489	492	522	06 56	660	01 10	479	181	11
500	496	497	498	494	498	499	502	503	531	05 22	631	19 20	491	140	12
522	521	518	516	512	514	509	506	506	543	06 06	649	00 20	502	147	13
518	518	518	519	532	516	527	515	511	543	06 28	631	22 48	505	126	14
491	493	498	497	494	496	495	494	495	530	05 22	761	10 45	476	285	15
496	495	495	495	493	497	500	504	501	521	06 08	616	13 45	488	128	16
519	519	518	516	519	522	522	522	518	544	05 22	638	00 02	501	137	17†
535	530	524	517	514	509	513	512	515	552	07 10	628	20 04	507	121	18†
536	539	533	519	524	522	526	526	528	562	06 15	664	17 39	517	147	19
538	537	533	534	535	533	536	531	536	558	06 02	643	22 12	517	126	20†
421	407	426	428	433	428	433	442	447	494	06 51	632	12 02	384	248	21††
470	471	472	476	480	485	487	487	496	487	06 24	549	00 05	437	112	22
489	488	488	487	489	500	500	495	493	520	05 13	599	01 08	470	129	23
465	472	478	484	486	482	488	496	489	518	04 46	629	14 45	458	171	24
496	496	496	491	491	497	498	497	494	528	07 45	628	00 22	484	144	25
505	504	508	508	508	508	508	507	501	537	05 10	637	00 18	497	140	26
515	514	514	516	518	516	510	501	502	543	05 40	641	22 20	497	144	27
511	507	505	512	495	462	428	426	399	527	07 18	670	23 59	369	301	28††
308	311	339	362	380	398	413	416	423	375	05 28	453	15 10	301	152	29††
480	486	483	481	476	478	481	480	476	457	06 15	601	00 01	429	172	30
488	487	488	490	492	492	492	491	489	519	..	..	..	..	182	Mean
520	519	516	515	515	516	518	516	516	..	..	..	..	..	..	Mean†
424	422	430	434	443	439	434	438	435	..	..	..	..	..	..	Mean††

†Five International quiet days.

††Five International disturbed days.

△Loss of record ; day omitted for means.

TABLE 13

Hourly Values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

2000 γ plus tabular quantities

January

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1††	338	337	342	356	362	372	380	380	357	334	323	329	346	344	332
2	343	351	348	350	357	350	350	338	322	310	316	322	322	335	337
3†	348	350	350	353	347	339	338	336	326	316	317	319	326	336	339
4†	349	351	352	350	343	326	321	316	314	314	308	320	331	337	339
5†	346	347	347	347	345	349	349	339	337	323	320	327	331	337	338
6	340	343	344	349	347	339	327	311	293	284	290	301	313	324	331
7†	345	345	340	345	338	327	314	312	302	304	312	313	317	328	330
8†	345	346	343	344	344	333	322	316	306	302	309	316	324	329	335
9	341	346	344	343	336	318	312	295	302	313	320	318	318	325	328
10	336	340	352	346	338	317	306	295	293	295	307	318	324	323	324
11	338	344	338	333	328	307	292	290	289	300	320	331	335	336	336
12	340	346	341	340	338	314	303	315	313	312	309	313	318	328	332
13	337	347	347	345	329	319	317	309	314	310	315	322	328	331	337
14	340	341	342	340	329	304	286	279	273	276	293	324	326	334	339
15	339	342	347	348	333	314	283	271	271	285	271	329	348	325	323
16	341	344	347	341	338	333	317	306	298	290	294	314	326	324	330
17††	340	345	351	353	339	319	295	277	272	273	283	297	319	334	341
18††	342	340	339	346	342	326	316	295	281	284	291	317	329	329	334
19	346	350	346	347	320	308	308	307	307	307	307	307	314	324	338
20	348	348	343	345	343	321	314	299	296	299	317	325	322	332	339
21††	331	346	334	323	319	331	331	331	331	327	327	326	337	340	346
22	346	348	342	335	329	304	284	284	292	305	317	323	317	318	320
23††	341	349	352	352	350	334	322	329	340	338	332	331	325	321	339
24	345	349	345	342	332	325	309	301	302	309	316	320	315	324	338
25	345	346	340	339	332	326	312	287	276	277	294	319	322	331	318
26	348	350	353	349	342	322	297	286	303	320	329	320	327	329	334
27	343	342	340	330	317	309	314	308	303	315	330	332	329	335	339
28	343	343	352	364	369	337	326	320	331	331	327	325	326	329	334
29	342	343	354	360	352	329	312	304	305	311	314	320	329	330	332
30	340	346	348	358	361	319	302	293	287	297	302	310	320	327	331
31	342	350	349	343	339	326	310	305	303	308	309	323	332	333	339
Mean	342	346	346	346	340	326	315	308	304	305	310	320	326	330	334
Mean†	347	348	346	348	343	335	329	324	317	312	313	319	326	333	336
Mean††	338	343	344	346	342	336	329	322	316	311	311	320	331	334	338

†Five International quiet days.

††Five International disturbed days.

ΔLoss of record ; day omitted for means.

TABLE 13

Hourly Values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

January

2000 γ plus tabular quantities

Hours G.M.T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
338	347	350	339	335	338	348	350	346	347	06 23	387	10 20	318	69	1††
338	346	348	349	348	346	346	345	345	340	04 00	357	08 50	307	50	2
339	340	343	346	346	346	345	347	349	339	02 45	353	09 00	315	38	3†
339	340	343	344	345	345	345	347	349	336	01 08	355	10 00	308	47	4†
338	340	338	344	346	343	344	343	343	339	05 56	354	09 30	316	38	5†
335	336	337	340	343	344	345	340	344	329	03 00	349	09 15	282	67	6
337	338	338	338	339	340	340	340	340	330	00 01	347	08 05	300	47	7†
338	338	339	339	341	341	341	341	341	332	01 07	349	08 30	299	50	8†
325	332	338	339	348	346	344	339	338	329	18 50	350	07 05	293	57	9
333	339	337	339	341	339	339	339	338	327	02 38	353	08 00	293	60	10
338	337	339	336	331	330	338	341	341	327	01 03	347	07 30	285	62	11
338	338	338	341	341	338	341	338	338	330	01 09	352	06 00	300	52	12
338	337	341	341	341	340	342	337	337	332	01 08	352	07 20	307	45	13
339	338	339	341	346	345	344	341	339	325	21 20	347	08 30	270	77	14
337	342	342	342	345	347	346	340	340	325	02 45	349	06 35	270	79	15
339	338	340	340	342	342	339	338	341	330	01 26	348	09 00	290	58	16
339	340	340	341	341	341	346	340	334	325	02 30	354	08 45	271	83	17††
339	339	342	343	352	353	350	345	342	330	18 58	355	08 00	277	78	18††
334	339	338	340	349	345	342	342	347	330	01 06	353	07 30	305	48	19
334	348	342	340	342	342	341	345	331	331	21 50	354	07 30	295	59	20
341	341	346	342	340	341	348	346	345	336	01 00	349	03 45	317	32	21††
338	346	346	346	342	348	345	340	341	327	19 35	350	06 00	280	70	22
338	339	338	348	348	341	340	342	343	339	18 30	354	06 08	319	35	23††
338	342	341	343	345	342	341	341	342	331	01 09	352	07 00	301	51	24
323	331	327	338	346	343	346	341	343	325	23 59	348	08 30	274	74	25
337	334	338	338	342	348	346	340	340	332	02 00	353	07 02	280	73	26
337	334	334	339	342	341	342	341	349	331	23 00	349	08 00	302	47	27
332	337	340	338	340	340	341	342	342	338	03 15	369	09 30	324	45	28
332	329	331	337	343	348	345	341	339	333	02 50	362	07 15	303	59	29
332	333	338	339	338	338	340	341	341	328	03 15	367	07 52	280	87	30
338	338	335	339	340	340	341	341	341	332	01 15	353	07 30	301	52	31
336	339	340	341	343	343	343	342	342	332	..	..	..	..	58	Mean
338	339	340	342	343	343	343	344	344	..	..	..	..	..	..	Mean†
339	341	343	343	343	343	346	345	342	..	..	..	..	..	..	Mean††

†Five International quiet days.

††Five International disturbed days.

Δ Loss of record ; day omitted for means.

TABLE 14

Hourly Values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

February

2000 γ plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	343	344	342	346	338	320	318	321	319	320	326	327	321	327	334
2	343	346	353	351	344	333	326	320	320	326	321	318	323	332	335
3†	343	343	338	342	343	344	342	342	343	344	335	331	332	333	339
4	341	351	347	351	351	343	342	350	347	332	319	318	324	340	339
5	338	334	343	330	330	330	328	340	340	335	328	319	321	326	342
6††	342	338	328	330	319	310	315	321	328	340	340	324	326	335	336
7	344	341	342	340	331	305	306	317	326	332	342	330	320	332	341
8	343	343	347	341	314	287	286	287	307	322	342	350	332	332	339
9	341	341	338	331	321	294	294	306	325	347	348	346	338	339	339
10	340	345	338	323	305	291	290	294	307	321	329	332	332	329	330
11††	336	340	398	372	340	312	Δ	Δ	Δ	Δ	278	296	312	335	352
12††	358	346	345	337	330	323	311	315	310	315	313	315	327	335	339
13	343	348	336	321	314	297	291	292	301	311	315	320	320	323	330
14	339	345	351	349	344	328	313	301	299	293	305	314	318	323	327
15†	342	344	346	352	358	356	345	339	334	328	326	325	326	328	357
16	341	345	342	333	320	315	321	318	318	323	328	326	318	316	325
17††	345	346	343	336	312	309	335	348	350	357	333	315	318	320	311
18††	334	337	329	324	319	322	327	335	349	343	321	317	321	330	336
19	337	337	329	325	321	318	322	328	347	350	334	319	313	325	332
20	337	336	333	330	327	319	322	325	326	328	332	334	330	327	326
21	337	337	337	328	324	303	302	312	327	330	334	327	317	325	325
22	337	342	344	337	324	306	299	305	310	313	314	315	313	324	333
23	340	336	337	329	313	302	294	293	296	299	309	311	324	318	333
24†	337	343	346	340	325	312	305	302	298	301	303	309	329	327	333
25†	340	343	337	333	324	319	305	311	317	314	314	315	323	326	331
26†	341	344	343	344	336	324	320	312	318	320	321	319	321	326	332
27	334	342	340	337	326	316	314	309	312	321	324	319	317	323	326
28	336	340	335	331	327	312	312	314	329	334	342	325	318	332	332
Mean	341	342	340	336	327	316	314	317	322	326	326	323	323	328	333
Mean†	341	343	342	342	337	331	323	321	322	321	320	320	326	327	334
Mean††	345	342	336	332	320	316	322	330	334	339	327	318	323	330	331

†Five International quiet days.

††Five International disturbed days.

 Δ Loss of record ; day omitted for means.

TABLE 14

Hourly Values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

February

2000 γ plus tabular quantities

Hours G.M.T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
335	338	339	341	342	343	343	341	342	334	02 45	347	05 35	317	30	1
338	341	341	342	344	342	342	343	344	336	02 00	353	11 00	318	35	2
340	341	341	343	348	349	349	343	341	341	19 30	350	11 20	330	20	3†
322	322	339	346	343	338	332	339	340	338	07 15	353	10 30	312	41	4
341	339	340	342	350	354	339	332	340	336	19 48	361	12 25	317	44	5
342	333	341	356	353	351	349	354	350	336	17 55	358	05 40	308	50	6††
336	338	343	343	350	354	350	344	342	335	20 05	356	05 22	301	55	7
331	330	349	347	346	347	350	341	343	332	20 50	352	06 00	286	66	8
337	330	329	339	351	348	339	339	339	333	19 08	353	05 30	293	60	9
325	320	335	337	333	344	332	339	338	325	21 54	346	05 30	285	61	10
355	361	381	374	358	343	352	347	352	Δ	Δ	Δ	Δ	Δ	Δ	11††
337	344	344	346	339	344	342	343	337	333	18 14	359	07 30	292	67	12††
337	338	333	343	345	348	342	341	341	326	18 20	351	06 00	291	60	13
335	337	338	334	343	342	339	339	342	329	02 03	352	09 00	293	59	14
334	335	344	339	339	338	336	336	337	339	04 15	359	10 38	322	37	15†
325	327	342	341	337	338	336	336	345	330	16 50	353	05 00	315	38	16
333	342	341	343	337	347	345	335	337	335	08 30	363	04 38	300	63	17††
335	336	335	337	344	344	336	341	337	333	08 25	351	10 43	313	38	18††
337	335	336	340	336	340	347	340	335	333	08 22	351	11 40	312	39	19
325	340	343	338	335	337	348	341	345	333	20 46	349	05 41	312	37	20
326	336	341	340	344	337	345	350	343	330	21 56	358	05 25	294	64	21
328	330	336	344	338	336	343	343	341	327	18 12	347	06 03	292	55	22
332	335	336	335	333	335	337	337	336	323	21 22	342	06 52	291	51	23
333	334	335	340	339	336	336	336	337	327	02 00	346	07 50	297	49	24†
332	332	334	335	336	335	335	336	339	328	01 05	346	06 01	302	44	25†
333	333	334	335	335	335	335	334	335	330	01 05	347	07 06	309	38	26†
331	332	332	333	332	328	334	337	336	327	01 08	344	07 00	309	35	27
333	333	334	341	341	339	337	336	336	331	09 52	343	05 45	311	32	28
333	334	338	341	341	342	341	340	340	332	..	..	..	..	47	Mean
334	335	338	338	339	339	338	337	338	..	..	..	..	..	..	Mean†
337	337	340	345	343	347	343	343	340	..	..	..	..	..	..	Mean††

†Five International quiet days.

††Five International disturbed days.

 Δ Loss of record ; day omitted for means.

TABLE 15

Hourly Values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

March

2000 γ plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1†	334	341	337	339	336	323	316	312	310	308	310	315	322	322	224
2†	336	336	331	323	312	307	307	308	315	320	320	313	324	325	331
3	339	338	331	323	316	305	296	305	310	312	327	313	317	325	333
4	339	338	333	342	338	324	320	332	341	336	332	324	323	331	333
5††	342	345	343	341	342	335	335	304	333	343	342	342	331	335	341
6	339	338	331	332	332	331	323	323	331	340	340	329	322	323	334
7	339	342	349	345	332	319	308	300	301	307	322	324	323	322	324
8	342	346	348	346	340	324	310	308	307	307	315	317	325	232	333
9	338	341	352	346	340	323	305	296	307	300	307	306	317	329	328
10	339	341	343	341	331	329	322	321	307	305	301	307	317	328	333
11	343	345	341	339	332	328	321	321	316	321	320	317	315	317	321
12††	344	342	330	322	324	309	297	305	307	316	319	310	319	320	329
13††	338	344	344	341	328	318	306	305	303	308	308	309	315	321	329
14	344	349	344	344	345	339	331	321	318	318	320	320	327	330	342
15	343	344	342	341	319	306	298	283	282	285	308	308	312	322	327
16†	341	344	342	330	316	308	297	292	293	297	305	308	319	328	332
17	339	339	340	344	333	320	302	305	307	301	325	331	328	330	324
18	340	343	337	330	317	310	297	284	290	293	298	309	319	322	330
19††	343	343	343	339	338	323	310	311	322	323	321	317	316	317	321
20††	353	340	339	332	330	322	310	305	294	298	309	320	323	329	330
21	338	343	340	331	321	315	313	313	314	309	311	317	329	333	332
22	343	343	349	341	332	322	310	309	314	319	318	321	329	333	332
23	347	346	348	352	341	325	310	307	308	314	324	329	324	331	332
24	345	346	347	340	323	310	304	301	304	306	310	318	319	332	334
25	347	348	358	352	341	324	304	285	287	307	311	311	322	323	323
26	347	348	346	345	340	326	318	310	307	304	303	306	307	323	331
27	344	354	364	366	357	347	344	330	317	310	315	327	330	333	335
28†	344	347	356	360	355	342	322	311	306	300	311	317	324	333	334
29†	344	353	357	356	352	332	330	307	310	314	322	326	330	334	338
30	350	357	356	354	345	330	311	303	300	294	317	318	319	322	318
31	345	347	344	344	345	333	319	322	324	332	323	329	334	338	340
Mean	342	344	344	341	334	323	313	308	309	311	317	318	322	327	331
Mean†	340	344	345	342	334	322	314	306	302	308	314	316	324	328	332
Mean††	344	343	340	335	332	321	312	306	317	318	320	320	321	324	335

†Five International quiet days.

††Five International disturbed days.

△Loss of record; day omitted for means.

TABLE 15

Hourly Values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

March

2000 γ plus tabular quantities

Hours G.M.T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
326	331	333	333	333	333	332	332	335	326	01 04	344	09 18	305	39	1†
331	332	333	334	334	334	335	335	335	325	01 08	340	06 30	302	38	2†
333	334	335	336	335	333	339	334	334	325	20 42	345	06 25	295	50	3
335	339	343	341	342	347	345	343	342	336	20 00	347	06 03	315	32	4
339	339	339	343	345	347	343	342	342	339	08 15	356	07 07	289	67	5††
330	340	339	341	347	344	346	342	335	335	21 23	353	06 14	319	34	6
332	340	338	335	337	342	334	335	342	329	02 15	352	07 23	292	60	7
333	334	339	339	340	339	331	341	337	331	01 10	350	08 40	300	50	8
326	331	336	339	341	343	340	339	339	328	02 00	354	06 42	294	60	9
333	332	336	341	338	340	340	339	339	329	18 10	346	09 30	300	46	10
329	328	324	325	336	345	340	344	344	330	00 25	352	11 42	313	39	11
340	340	338	343	338	339	333	342	343	327	00 01	345	06 10	292	53	12††
323	321	339	341	343	343	346	344	344	328	01 25	351	07 48	300	51	13††
328	320	332	342	342	341	343	341	341	334	13 42	351	08 00	318	33	14
329	331	337	339	344	344	342	342	341	324	01 00	346	06 56	263	83	15
333	336	337	333	335	339	339	339	339	324	00 52	349	07 02	290	59	16†
328	338	342	338	333	350	340	340	340	330	19 50	354	08 34	297	57	17
333	339	340	335	343	338	332	343	340	323	21 30	348	07 00	282	66	18
333	331	329	341	344	356	345	339	337	331	20 15	360	06 28	306	54	19††
328	347	345	343	345	346	352	337	333	330	18 35	356	08 30	288	68	20††
331	333	333	340	347	343	341	346	345	330	19 02	349	08 28	306	43	21
334	340	342	342	345	344	344	344	344	333	02 05	352	07 00	308	44	22
332	344	341	342	350	349	353	346	345	335	20 40	355	06 50	306	49	23
334	329	345	335	338	344	344	346	345	329	17 05	354	06 54	300	54	24
333	357	345	346	354	354	353	349	348	332	15 46	372	07 20	281	91	25
330	330	326	341	344	346	347	345	345	330	20 32	352	09 30	301	51	26
338	340	341	344	345	342	344	347	346	340	03 00	367	09 00	309	58	27
335	338	335	342	342	344	345	344	344	335	02 45	364	08 45	297	67	28†
338	341	341	342	345	344	345	344	345	337	01 45	361	07 15	306	55	29†
312	333	339	345	344	342	344	348	346	331	01 00	359	08 56	286	73	30
340	338	341	344	340	346	347	345	344	338	01 00	348	05 42	317	31	31
332	336	338	340	342	343	342	342	341	331	..	..	..	..	53	Mean
333	336	336	337	338	339	339	339	340	..	..	..	..	..	..	Mean†
333	336	338	342	343	346	344	341	340	..	..	..	..	..	..	Mean††

†Five International quiet days.

††Five International disturbed days.

Δ Loss of record ; day omitted for means.

TABLE 16

Hourly Values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

2000 γ plus tabular quantities

April

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	346	350	355	359	345	329	317	300	305	309	316	322	325	333	336
2††	345	348	348	342	324	320	309	293	302	308	310	310	325	333	333
3	342	351	353	350	340	329	309	307	306	307	310	316	321	331	331
4††	342	345	342	332	329	316	308	305	304	306	313	320	327	322	322
5	350	344	338	333	322	306	293	289	293	305	313	313	325	325	330
6	342	351	353	343	337	336	308	303	292	303	307	319	330	329	330
7	350	351	356	356	352	340	332	317	299	306	314	318	322	327	328
8	341	348	357	360	356	344	326	314	306	314	325	329	342	329	330
9	343	348	350	350	343	333	318	313	321	309	315	320	327	332	332
10†	342	347	341	334	326	315	301	295	296	300	303	309	315	324	326
11†	340	346	345	340	337	326	303	293	300	308	316	320	323	325	325
12†	339	347	342	337	324	309	293	287	293	301	310	316	322	326	327
13†	337	347	343	336	325	312	299	287	294	309	315	318	323	329	325
14	341	345	343	339	336	320	303	291	290	299	301	302	321	325	322
15	343	354	348	335	313	314	300	291	287	299	320	328	330	330	329
16††	338	344	340	334	323	305	281	262	278	299	306	313	314	320	324
17††	346	347	350	345	333	323	315	308	297	310	324	329	329	329	324
18††	343	343	335	323	320	319	303	292	295	294	306	312	322	330	330
19	343	344	342	336	331	329	298	295	293	291	306	320	333	332	328
20	341	343	341	331	319	297	288	281	293	306	319	321	329	331	328
21	340	345	344	336	332	324	310	302	298	298	305	311	317	316	328
22†	334	340	338	332	328	318	303	297	303	305	309	319	328	330	328
23	339	344	343	335	325	315	310	308	303	308	309	316	318	326	325
24	341	346	339	333	320	307	307	304	307	317	324	329	330	329	330
25	341	348	341	335	339	326	314	295	294	292	296	303	316	329	327
26	340	343	347	347	339	335	308	299	297	304	316	332	327	330	330
27	339	346	334	332	330	320	310	300	294	303	312	319	322	325	325
28	338	340	337	325	316	308	304	303	301	304	315	317	317	324	325
29	342	345	341	338	330	308	293	293	293	297	303	306	308	327	332
30	339	343	346	340	330	315	296	291	294	294	300	307	325	327	327
Mean	342	346	344	339	331	320	305	297	298	303	311	317	324	327	328
Mean†	338	345	342	336	328	316	300	292	297	305	311	316	322	327	326
Mean††	343	345	343	335	326	317	303	292	295	303	312	317	323	327	327

†Five International quiet days.

††Five International disturbed days.

△ Loss of record ; day omitted for means.

TABLE 16

Hourly Values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

April

2000 γ plus tabular quantities

Hours G.M.T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
337	340	343	345	345	349	343	343	344	335	02 50	362	07 15	298	64	1
338	340	343	344	344	344	344	340	342	330	01 00	349	07 20	286	63	2††
332	340	342	342	342	342	343	344	340	332	01 30	355	08 30	305	50	3
330	331	331	332	338	342	349	343	357	329	22 50	359	08 15	303	56	4††
331	337	340	340	343	349	342	342	342	327	19 56	352	06 44	288	64	5
330	328	329	337	338	350	344	342	348	330	01 22	357	08 12	288	69	6
330	332	337	341	344	348	342	341	344	334	03 00	359	08 05	296	63	7
335	337	337	339	341	342	342	347	342	337	03 00	362	08 00	305	57	8
334	338	338	339	338	334	335	336	338	333	02 18	351	08 45	308	43	9
331	335	337	337	338	339	339	339	338	325	01 00	349	07 00	294	55	10†
327	335	337	338	339	339	341	339	338	328	01 02	348	07 10	290	58	11†
330	332	334	334	336	336	338	336	336	324	01 00	348	07 00	286	62	12†
331	333	335	335	336	335	336	337	338	326	00 55	349	07 25	284	65	13†
322	332	338	339	340	337	337	338	338	325	07 24	346	07 42	288	58	14
331	334	336	337	337	340	342	337	337	327	00 50	355	07 35	284	71	15
335	341	335	334	342	346	344	335	342	322	19 15	352	07 04	258	94	16††
336	336	333	333	347	341	338	342	353	332	19 05	359	08 08	293	66	17††
335	343	341	341	344	343	344	343	338	327	16 02	346	09 02	291	55	18††
328	329	335	337	342	343	341	339	339	327	19 10	345	09 30	290	55	19
328	333	340	342	342	339	341	343	340	326	21 45	345	06 55	276	69	20
328	328	334	332	333	339	339	341	339	326	01 00	348	09 00	297	51	21
330	332	333	338	338	339	340	333	335	326	01 15	342	06 35	294	48	22†
227	326	325	329	335	339	339	340	341	326	01 00	345	07 42	302	43	23
329	332	332	339	340	340	341	340	339	329	01 00	348	06 30	303	45	24
329	331	332	332	335	338	337	338	338	329	00 45	349	08 30	291	58	25
330	329	329	332	330	345	340	334	338	329	02 00	348	08 00	296	52	26
329	331	332	331	330	335	342	338	334	326	00 40	348	07 50	291	57	27
327	333	338	343	338	337	337	343	342	325	22 12	350	07 50	297	53	28
332	338	339	341	338	338	341	341	339	325	00 35	347	06 35	289	58	29
330	331	337	332	333	340	340	337	340	325	01 30	348	06 18	286	62	30
331	334	336	337	339	341	341	343	341	328	..	..	..	..	59	Mean
330	333	335	336	337	338	339	337	337	..	..	..	..	..	..	Mean †
335	338	337	337	343	343	344	341	346	..	..	..	..	..	..	Mean††

†Five International quiet days.

††Five International disturbed days.

ΔLoss of record, day omitted for means.

TABLE 17

Hourly Values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

May

2000 γ plus tabular quantities

Date	Hours G.M.T.															
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
1	341	349	350	340	330	315	303	295	293	292	306	319	328	329	328	
2	339	352	360	354	338	317	303	294	295	297	324	328	330	329	328	
3	340	355	361	356	330	308	295	284	281	293	310	317	325	328	328	
4	340	354	356	352	331	310	306	295	295	306	318	322	325	328	328	
5	339	349	345	338	322	303	292	284	283	291	306	318	329	331	328	
6	337	347	353	347	330	299	279	272	278	285	296	306	315	326	328	
7†	340	349	354	352	338	324	310	298	294	299	306	317	326	329	328	
8	340	347	345	339	334	318	308	305	306	303	306	315	319	329	328	
9	338	342	351	351	351	341	332	321	311	310	316	326	334	331	328	
10	339	342	356	362	349	322	312	302	295	307	308	316	324	326	330	
11	342	349	351	351	339	324	315	300	293	295	307	324	328	330	330	
12	342	345	336	326	314	306	305	301	299	300	302	308	323	328	329	
13††	342	342	339	336	326	317	315	310	299	311	315	316	325	328	333	
14††	348	351	352	336	315	319	313	314	315	330	338	341	344	339	330	
15	346	351	352	340	328	303	294	308	319	326	322	325	329	330	329	
16	342	347	351	349	346	338	329	328	329	319	325	330	336	336	336	
17	342	351	351	345	336	334	331	329	328	328	325	329	330	331	331	
18	349	351	352	347	345	330	325	317	315	317	314	326	337	339	331	
19	342	349	351	350	339	324	302	304	317	324	327	330	332	336	333	
20†	341	346	345	343	3 9	318	317	312	307	310	322	328	331	335	332	
21	344	353	356	351	341	332	324	316	316	324	330	337	339	338	338	
22†	344	353	358	355	340	327	315	307	310	318	325	329	329	330	331	
23†	344	344	343	340	331	328	329	324	327	327	331	337	331	335	335	
24†	346	351	352	350	343	327	323	324	326	320	315	324	327	331	332	
25	345	350	347	343	335	324	324	324	324	321	326	334	337	335	335	
26††	345	344	338	335	336	327	327	315	305	304	314	316	323	332	331	
27	349	347	342	335	326	315	306	302	303	314	325	318	323	335	337	
28	348	349	346	341	328	313	304	293	299	316	328	335	337	337	336	
29††	349	358	344	330	313	304	290	273	260	259	280	305	326	333	334	
30	356	358	353	350	353	350	334	311	303	310	316	319	323	328	330	
31††	344	349	354	349	349	345	345	334	331	330	337	337	336	338	336	
Mean	343	349	350	345	334	322	313	306	305	310	317	324	329	332	331	
Mean†	343	349	350	348	336	325	319	313	313	315	320	327	329	332	332	
Mean††	346	349	345	337	328	322	318	309	302	307	317	323	331	334	333	

†Five International quiet days.

††Five International disturbed days.

△Loss of record ; day omitted for means.

TABLE 17

Hourly Values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

May

2000 γ plus tabular quantities

Hours G.T.M.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
329	333	331	338	339	339	338	337	340	327	01 25	352	08 30	291	61	1
330	331	336	337	337	339	336	337	339	331	02 05	362	07 15	293	69	2
329	331	333	336	337	338	337	337	336	326	02 02	362	07 52	279	83	3
330	331	336	337	338	338	338	336	340	329	02 00	359	07 44	293	66	4
329	331	334	337	333	340	338	342	337	324	01 15	352	08 00	281	71	5
328	330	332	336	337	337	338	338	338	321	02 08	355	07 15	271	84	6
329	331	336	337	338	339	338	340	340	329	02 08	356	07 48	293	63	7†
326	328	331	336	339	340	339	341	339	328	03 54	348	09 10	299	49	8
330	331	333	336	337	338	339	340	337	333	02 10	353	07 50	302	51	9
331	330	338	338	344	338	338	339	338	331	02 44	365	07 45	294	71	10
328	332	337	338	337	336	339	340	340	329	02 00	351	08 00	293	58	11
330	330	336	336	330	330	338	337	345	324	00 40	346	08 00	299	47	12
333	336	339	336	341	339	346	339	341	329	03 58	349	08 05	295	54	13††
340	339	339	341	351	344	340	340	340	336	01 25	356	06 00	310	46	14††
332	341	341	341	341	337	338	338	341	331	01 30	354	05 34	291	63	15
331	337	338	338	339	340	339	339	341	337	02 30	352	09 12	316	36	16
329	337	339	341	346	341	342	341	346	337	01 00	351	10 00	323	28	17
332	339	339	333	338	338	339	342	342	335	02 00	352	07 22	308	44	18
335	337	338	338	341	338	339	340	340	334	02 00	351	06 10	294	57	19
335	337	339	337	337	340	338	339	329	332	00 52	347	08 00	307	40	20†
336	339	340	341	341	343	343	343	343	338	02 00	356	07 45	315	41	21
335	339	339	341	341	344	344	345	344	335	02 15	360	07 00	307	53	22†
338	339	340	340	340	343	343	343	344	337	23 59	346	07 00	324	22	23†
332	336	339	339	340	340	340	340	342	331	01 22	353	10 00	314	39	24†
338	339	342	347	344	344	343	340	344	337	00 55	352	05 30	320	32	25
329	335	337	346	350	350	349	350	350	333	22 10	352	08 55	300	52	26††
337	341	341	339	344	338	339	346	345	331	23 35	350	06 45	299	51	27
336	337	339	344	344	342	344	344	344	333	01 00	349	07 05	291	58	28
339	344	349	348	348	350	351	351	353	325	01 07	360	09 00	254	106	29††
333	337	344	342	341	343	343	349	344	336	00 58	361	08 20	302	59	30
341	345	350	337	329	322	326	339	353	340	16 58	370	18 45	319	51	31††
333	336	338	339	340	340	340	341	342	332					55	Mean
334	336	339	339	339	341	341	341	342							Mean†
336	340	343	342	344	341	342	344	347							Mean††

†Five International quiet days.

††Five International disturbed days.

△ Loss of record, day omitted for means.

TABLE 18

Hourly Values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

June

2000 γ plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1††	344	361	362	348	343	341	327	330	326	325	327	330	333	336	335
2	351	356	350	350	335	313	297	292	297	301	303	313	312	326	328
3†	350	355	361	364	361	345	333	325	324	320	325	327	334	337	337
4†	347	355	363	362	352	336	327	309	309	313	315	315	324	334	335
5	343	350	359	359	344	325	317	314	305	309	322	325	330	334	335
6	347	350	358	359	357	349	333	327	311	314	318	322	330	336	335
7††	338	356	358	370	379	367	348	346	316	301	321	347	343	336	339
8	349	351	347	347	343	344	320	301	296	298	308	314	324	331	331
9	347	359	357	341	324	314	303	291	298	300	305	319	323	328	334
10	333	340	344	347	336	321	311	302	291	289	289	305	323	334	334
11	342	351	356	352	344	343	342	324	314	320	323	328	335	337	334
12	344	350	346	342	331	312	302	297	292	303	310	305	312	325	332
13	343	346	346	335	323	313	313	320	325	325	326	331	331	333	333
14	343	347	343	333	321	308	298	300	312	312	313	321	325	332	333
15	344	344	343	333	323	326	331	331	331	327	329	334	336	331	331
16	344	344	343	337	334	327	323	314	318	321	314	319	325	334	335
17†	347	352	351	349	335	325	323	323	324	326	333	334	336	337	337
18†	346	342	348	342	332	328	340	341	335	335	335	334	335	339	337
19	347	354	349	342	334	337	335	325	321	324	326	325	332	333	334
20†	346	348	344	346	343	335	324	326	334	339	337	332	331	336	334
21††	344	346	336	333	334	325	333	337	335	326	340	313	309	334	336
22	355	363	356	347	332	332	326	324	325	325	325	324	332	336	335
23	344	349	354	347	334	325	312	312	313	316	324	328	335	336	335
24	346	348	344	337	325	321	320	309	305	324	327	334	334	328	334
25	346	352	351	349	349	343	344	336	332	321	320	326	332	335	336
26	348	354	349	342	334	331	323	319	322	322	320	317	323	332	335
27	347	351	350	343	330	322	308	305	303	308	308	311	324	333	334
28††	346	353	353	346	325	309	302	305	315	334	334	334	334	335	336
29††	334	346	357	346	327	319	317	311	312	311	312	322	324	335	335
30	356	358	361	358	346	323	309	307	312	323	333	341	341	335	335
Mean	345	351	351	347	338	329	321	318	315	317	321	324	329	334	334
Mean†	347	350	353	353	345	334	329	325	325	327	329	328	332	337	336
Mean††	341	352	353	349	342	332	325	326	321	319	327	329	329	335	336

†Five International quiet days.

††Five International disturbed days.

△ Loss of record ; days omitted for means.

TABLE 18

Hourly Values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

June

2000 γ plus tabular quantities

Hours G.M.T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.	Mag	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
337	342	344	342	351	345	342	344	344	340	01 20	372	05 58	314	58	1††
332	337	344	347	350	348	347	347	347	330	01 00	356	07 24	289	67	2
338	338	342	343	344	347	345	344	343	341	03 10	368	08 35	319	40	3†
336	338	343	343	344	344	343	343	343	336	02 08	364	07 34	305	59	4†
336	336	336	338	341	342	342	343	344	335	02 45	360	08 12	301	59	5
335	337	338	342	341	343	337	338	345	338	02 30	360	08 05	306	54	6
346	344	342	344	348	348	347	347	349	345	04 05	363	03 56	298	85	7††
332	336	341	342	340	343	339	343	342	332	00 35	355	03 50	294	61	8
334	334	335	347	347	343	348	337	336	329	06 32	362	07 00	289	73	9
335	336	337	340	337	339	342	344	346	327	02 55	351	09 30	287	64	10
335	337	337	342	343	342	340	337	337	337	02 42	359	08 10	312	47	11
344	335	337	339	337	339	337	341	342	327	00 45	351	08 00	291	60	12
333	334	336	337	335	337	336	336	337	332	00 30	347	05 18	311	36	13
333	335	336	337	346	337	346	336	340	329	00 45	348	06 50	295	53	14
331	335	337	337	336	337	337	340	342	334	01 30	346	04 55	320	26	15
337	341	342	343	343	343	344	344	346	334	23 58	348	07 00	313	35	16
337	337	341	342	343	344	344	343	343	338	01 08	354	06 00	322	32	17†
335	337	340	340	342	342	343	344	346	339	00 50	354	04 45	326	28	18†
335	337	341	335	343	343	346	343	343	337	01 00	357	08 08	319	38	19
336	337	340	342	344	343	343	342	344	339	00 45	349	06 25	323	26	20†
331	334	346	346	349	346	349	355	356	337	02 54	357	11 40	294	63	21††
336	339	341	343	344	347	346	346	351	339	01 42	365	07 00	323	42	22
334	336	339	340	343	346	344	344	343	335	02 00	354	06 10	311	43	23
334	342	346	348	348	347	347	349	346	335	21 30	350	08 00	302	48	24
336	337	341	339	340	343	342	343	343	339	00 56	354	10 00	319	35	25
335	336	341	342	345	345	345	345	345	335	00 45	355	10 45	315	40	26
334	339	340	342	345	345	345	343	346	331	00 35	353	08 00	302	51	27
336	341	343	350	345	334	328	343	336	334	18 24	357	05 54	301	56	28††
332	334	346	353	355	357	358	355	356	336	21 00	358	07 34	307	51	29††
335	344	344	344	342	345	346	346	347	339	02 05	362	06 54	306	56	30
335	337	341	342	344	343	343	303	344	335					50	Mean
336	337	341	343	343	344	344	343	344							Mean†
336	339	344	347	350	346	345	349	348							Mean††

†Five International quiet days.

††Five International disturbed days.

Δ Loss of record ; day omitted for means.

TABLE 19
PRINCIPAL MAGNETIC STORMS

January to June, 1958

Observatory	Greenwich date	Storm Time		Sudden commencements				C-figure Degree of Activity (iv)	Maximal Activity on K Scale 0 to 9			Ranges			
		G.M.T. of begin- ning	G.M.T. of Ending (i)	Type (ii)	Amplitude (iii)				Green- wich Day	Green- wich 3 hr. index	K index	D	H	Z	
					D.	H.	Z.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	1958	H. M.	D. H.		'	Y	Y					'	Y	Y	
Astrophysical Observatory, Kodaikanal	February	11	01 24	12 13	S.C.	3	80	35	s	11	..	..	20	813	316
	March	5	05 39	05 10	S.C.	1	33	12	ms	5	..	..	7	340	66
	March	14	12 12	15 11	S.C.	1	41	18	m	15	..	..	5	230	84
	April	2	04 57	03 09	S.C.	1	51	10	ms	2	..	..	5	262	58
	April	16	04 18	18 19	...	..	..	..	ms	17	..	..	7	256	98
	May	29	02 22	29 16	S.C.	<1	33	6	ms	29	..	..	8	352	92
	May	31	16 52	1st June 14	S.C.	1	45	22	ms	1st June	..	..	9	345	61
	June	7	00 43	7 13	S.C.	<1	23	12	ms	7	..	..	7	317	83
	June	14	18 26	15 11	S.C.	<1	26	12	ms	15	..	..	7	287	40
	June	21	02 26	22 11	...	..	..	..	m	21	..	..	9	241	72
June	28	07 15	29 21	S.C.	2	91	23	m	29	..	..	13	215	53	

The following symbols and conventions have been used according to recognised practice :

- (i) Approximate time of ending of storm construed as the time of cessation of reasonably marked disturbance movements in the traces.
(ii) S.C.=Sudden commencement ; (...)=Gradual commencement.
(iii) Signs of amplitudes of 'D' and 'Z' taken algebraically; (D—reckoned negative being westerly).
(Z—reckoned positive being vertically downwards).
(iv) Storm described by three degrees of activity : (m)—for moderate (when range is less than 250 Y).
(ms)—for moderately severe (when range is between 251 Y and 400 Y).
(s)—for severe (when range is above 400 Y).

PART III

IONOSPHERIC OBSERVATION FOR THE FIRST HALF OF 1958

A description of the system of ionospheric observations at Kodaikanal together with a brief description of the Ionosphere Recorder has been given in Bulletin No. 146 of this observatory. The present Bulletin contains half-hourly values of 11 Ionospheric parameters viz. f_oF_2 , f_oF_1 , f_oE , f_oE_s , f_bE_s , $f_{min.}$, $h'F_2$, $h'F$, $h'E$, $h'E_s$ and $(M3000)F_2$ with symbols and terminology as recommended by the Special Committee on World wide Ionospheric Soundings to the URSI/AGI in its first report (Brussels, September 2, 1956). The f-plots of the ionospheric parameters for Regular World Days and Special World Intervals, prepared under the I.G.Y. Programme, are also included in this bulletin.

KODAIKANAL OBSERVATORY,
August, 1958.

A. K. Das.
Dy. Director-General of Observatories.

101

IONOSPHERIC DATA

101

Characteristic : foF2

Unit : Mc

Month : January 1958

TABLE I
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	8.2	8.6	9.0	9.1	9.0	U9.5s	U10.6s	11.5H	11.6	12.9	13.4	13.6
2	7.5	U6.6F	6.6F	6.4F	U5.7F	U7.4s	8.4	10.8	12.4	13.6	13.3	13.4
3	6.8	6.6	6.7	6.8	6.8	6.6	7.9	11.0	12.9	13.6	14.0	13.9
4	U7.3F	F	F	F	7.8	8.6	8.5	11.2	13.0	13.4	13.1	12.1
5	F	F	F	F	7.1F	5.9	6.1	10.0	12.1	12.6	13.5	13.4
6	U10.4F	9.6	F	8.9	8.8	7.3	6.5	10.1	U12.0s	12.1	12.1	11.6
7	8.9	8.3	7.7	8.3	U9.4s	6.4	U6.2s	9.8	U11.5s	12.0	12.0	11.6
8	8.0F	9.2	9.7	10.2	9.3	6.8	5.9	9.9	11.8	12.0	11.1	10.4
9	10.8F	10.4F	9.7	9.8	9.9	8.2	7.1	10.4	12.4	12.4	11.6	11.0
10	10.0F	10.4	10.0	9.5	8.8	8.4	U7.4s	10.6	12.1	13.5	12.9	10.6
11	U11.8s	12.3	11.6	10.6	10.3	8.6	6.7	U9.6s	11.4	J11.8s	11.4	10.3
12	F	F	F	F	F	F	U8.6F	10.6	12.7	12.8	11.3	10.6
13	10.6	U9.4s	8.8	8.7	8.0	U7.2s	U7.4s	10.8	13.0	13.5	13.7	13.4
14	J10.2R	10.4	U9.6s	U9.4s	U9.2Fs	U8.6F	U9.0F	U11.0F	12.9	12.9	12.1	10.4
15	U8.8F	8.8	8.4	8.3	8.4	U8.4F	U8.6FH	U9.4s	12.8	13.8	13.4	U10.8R
16	11.0	10.8	10.4	9.4	8.9	9.1	8.7	U10.2s	11.4	11.8	11.0	9.9
17	8.3	U7.0F	6.7	7.9	8.4	8.6	U9.4s	12.0	13.3	13.6	13.9	13.4
18	10.7	10.0	U9.4s	9.0	8.3	8.4	U7.2s	10.6	12.0	13.0	13.0	12.4
19	U9.8s	U9.8s	8.9	8.5	U7.3s	4.8	5.7	U9.6s	11.5	12.1	11.8	10.8
20	F	U9.8F	U9.7s	9.1	6.6	4.3	4.9	9.0	11.4	12.0	11.7	10.7
21	F	8.6	9.2	8.8	7.7	6.1	6.8	10.2	J12.1R	13.9	14.7	14.7
22	F	F	F	J11.1R	10.5V	8.0	Fs	10.0	J11.8s	11.4	11.0	10.4
23	10.5	10.8	U9.8s	9.0	8.1	6.2	5.5	10.2	12.4	13.5	13.5	12.0
24	12.8	11.5	U9.6s	9.0	9.2	8.7	6.6	10.3	11.7	11.9	11.6	10.9
25	10.2	8.9	8.0	8.0	6.4	4.7	5.0	9.4	12.5	13.2	12.8	11.6
26	U9.5s	U9.3s	9.0	8.8	8.0	U7.2F	U6.2sH	9.8	12.3	13.6	13.6	11.4
27	C	C	C	F	7.3	C	6.9	10.3	C	12.6	12.6	11.8
28	U8.2F	8.8	8.4	U7.1s	6.6	U6.0s	6.8	9.9	12.0	U13.3R	12.0	9.8
29	8.6F	U8.2R	7.6	7.5	7.0	5.6	5.5	9.3	11.9	13.0	12.9	10.7
30	9.1	8.7	8.8	8.8	8.4	7.6	6.2	10.2	12.0	12.2	11.7	11.2
31	F	7.0	U7.4s	8.2	8.4	7.6	7.0	U9.8s	12.1	12.6	11.5	11.0
Count	24	26	25	27	30	29	30	31	30	31	31	31
Median	9.6	9.2	9.0	8.8	8.4	7.4	6.8	10.2	12.1	12.9	12.6	11.2
Mean	9.5	9.2	8.8	8.7	8.2	7.3	7.1	10.2	12.2	12.8	12.5	11.6

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : January 1958

TABLE I

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
13.3	13.1	13.0	11.9	10.0	10.5	10.4	9.6	9.4 ^F	8.8	8.9	8.6	1
13.1	U12.0W	10.6	10.5	10.6	10.2	10.1	9.3	9.4	U9.4 ^S	8.9	7.8	2
13.5	12.9	12.2	11.4	10.7	10.3	9.9	9.2	8.4 ^F	U8.1 ^F	7.7	7.8	3
11.7	11.6	11.4	11.0	10.9	10.7	10.4	U9.0W	U7.7 ^W	U7.6 ^F	F	F	4
13.0	12.7	12.7	12.3	12.1	11.7	10.6	9.6	8.6 ^F	U8.5 ^R	9.8	10.3	5
10.5	10.2	10.2	10.2	9.8	U9.7 ^S	U9.7 ^S	U8.5 ^W	8.0	8.5	8.6	8.9	6
11.0	11.0	11.7	12.0	C	11.8	11.3	U8.6 ^F	F	F	F	F	7
10.4	10.8	11.0	11.4	12.0	12.2	11.4	F	F	F	F	10.7 ^F	8
10.8	11.2	12.1	C	12.7	12.2	U11.4 ^R	F	F	U8.1 ^F	F	F	9
10.4	10.9	11.6	12.0	12.1	12.2	U11.9 ^S	U11.2 ^R	11.3	U12.2 ^R	13.1	U12.1 ^R	10
10.0	U10.6 ^W	11.2	11.8	12.7	12.7	J12.1 ^R	U 0.6 ^F	F	F	U9.4 ^F	F	11
11.1	11.6	12.0	11.9	11.7	U11.3 ^S	10.9	U9.5 ^S	9.2 ^R	U9.8 ^R	10.0	U10.0 ^S	12
11.9	U11.5 ^W	11.0	10.6	U10.2 ^W	U9.7 ^S	9.3	F	F	U8.7 ^F	9.9	R	13
U9.8 ^W	U9.3 ^W	U9.4 ^W	U9.0 ^W	9.2	U9.3 ^S	8.7	U7.5 ^F	F	F	F	U9.0 ^F	14
10.0	10.4	10.8	11.7	U12.1 ^R	12.6	12.8	U11.5 ^S	R	R	U11.8 ^S	11.2	15
9.9	10.1	9.5	9.4	9.7	U9.6 ^S	8.9	U8.3 ^F	F	F	8.0	8.6	16
11.3	10.1	9.8	10.0	10.3	10.7	11.2	11.4	11.3	11.4	12.6	11.8	17
11.2	10.5	9.8	10.0	10.0	9.9	9.1	8.4	U8.9 ^F	8.9	U9.6 ^S	U9.8 ^S	18
11.0	11.6	12.3	12.4	12.4	12.2	11.4 ^H	U8.8 ^F	F	F	F	F	19
10.0	10.3	10.6	11.2	11.1	10.8	U9.8 ^S	8.4	F	F	F	F	20
15.3	15.3	C	C	14.2	14.3	13.5 ^H	11.4 ^H	F	F	F	F	21
10.5	11.2	12.0	12.5	12.4	U11.5 ^S	U10.8 ^S	F	F	F	9.8	10.2	22
11.8	12.6	13.2	C	C	13.6	13.8	R	13.3	U12.1 ^R	12.7	12.8	23
10.4	10.6	11.0	11.4	11.6	U11.7 ^S	11.2	10.5	9.8 ^F	9.5	9.8	U9.8 ^S	24
11.3	10.5	9.9	9.9	10.5	10.8	10.7	9.6	F	F	U9.4 ^F	10.0	25
10.8	11.7	12.1	11.8	11.3	10.0	U9.5 ^S	U9.2 ^F	F	F	9.8	F	26
11.6	11.8	12.0	12.0	12.4	12.5	U12.0 ^S	10.0	F	F	F	8.6	27
10.0	10.4	10.8	11.2	11.3	11.4	10.9	U9.5 ^F	F	F	F	F _S	28
10.6	10.6	11.2	U11.5 ^S	U11.6 ^S	U11.2 ^R	U10.4 ^S	U9.6 ^S	U9.6 ^S	U9.7 ^S	U9.8 ^S	U9.4 ^S	29
10.8	10.8	11.2	11.7	11.7	11.0	9.8	9.5	F	F	F	F	30
10.6	10.6	11.2	11.5	11.8	12.0	U11.9 ^S	U11.0 ^R	F	F	F	U11.8 ^F	31
31	31	30	28	29	31	31	26	13	15	19	20	Count
10.8	10.9	11.2	11.4	11.6	11.3	10.8	9.5	9.4	8.9	9.8	9.9	Median
11.2	11.2	11.2	11.2	11.3	11.3	10.8	9.6	9.6	9.4	10.0	10.0	Mean

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : foF2
Unit : Mc
Month : January 1958

TABLE I—contd.
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	8.4	8.8	9.3	8.8	U9.2s	U9.4s	U11.1sH	J11.3s	12.5	13.1	13.7	13.6
2	7.2	6.4	6.6F	U6.4F	6.6	7.2	U9.5s	11.5	13.1	13.5	13.4	13.3
3	6.7	6.6	6.8	6.8	6.8	6.7	U9.5s	12.1	13.5	13.9	14.0	13.8
4	F	F	F	F	U8.5s	8.3	9.9	12.4	13.2	13.3	12.7	11.8
5	U8.4F	F	U8.0F	F	6.7	4.8	8.3	11.6	12.4	13.1	13.6	13.4
6	10.0	9.4F	8.7	9.1	8.4	6.0	8.4	11.4	12.2	12.3	11.9	11.0
7	8.6	7.8	8.0	9.0	8.4	5.2	8.3	11.0	11.9	11.9	12.0	11.3
8	8.4F	9.4	10.0	10.0	8.3	5.3	8.0	11.0	12.1	11.7	10.9	10.2
9	10.9	10.0	9.4F	10.0	9.4	6.9	8.8	11.7	12.7	12.1	11.0	10.9
10	10.3	10.1	9.8	9.4	8.7	7.5	U9.1s	11.6	12.9	13.5	U11.4W	10.4
11	12.0	J12.2R	10.9	10.6	U9.6s	7.0	8.4	11.0	U11.7s	11.6	10.9	U10.0W
12	F	F	F	F	F	U8.8F	U9.5F	12.0	12.8	12.3	10.8	10.9
13	J10.3R	9.0	8.8	8.6	7.5	6.9	U9.2s	12.0	13.4	13.6	U13.0W	10.3
14	10.3	U9.8s	9.2	9.4	U8.8F	U8.6F	Fs	U12.0s	13.0	12.6	11.2	10.0
15	U8.8F	8.7	8.4	8.2	8.6	U8.0F	U7.2s	11.4	13.6	13.8	U12.2R	10.3
16	10.7	10.6	10.0	9.0	8.9	8.9	9.5	10.9	C	11.4	10.2	9.6
17	7.9	6.7	U7.2s	8.4	8.6	8.7	10.8	13.0	13.6	14.0	13.9	12.6
18	10.4	U9.6s	9.0	8.6	8.6	8.0	9.0	11.8	12.7	13.1	12.8	12.0
19	U9.8s	U9.4s	8.5	8.3	6.0	4.2	7.8	10.7	12.0	12.2	11.3	10.9
20	F	U9.6s	9.6	8.2	5.5	3.5	U7.2s	10.5	12.0	12.0	11.3	10.2
21	U7.7F	9.2	8.9	8.6	6.9	5.4	8.5	11.2	U13.1R	14.3	14.7	14.8
22	F	F	F	11.2	9.4	6.3F	8.5	11.2	11.6	11.5	10.8	10.4
23	10.6	10.6	9.2	8.7	6.9	4.9	8.0	11.6	J13.0R	13.9	12.4	11.6
24	12.3	10.5	U9.2s	9.0	9.3	6.9	8.4	11.0	12.2	12.0	11.2	10.6
25	U9.6s	8.2	8.0	7.4	5.8	3.6	7.2	11.4	13.2	J13.2R	11.9	11.4
26	U9.3s	9.2	8.9	8.6	7.5	J6.2s	7.8	11.3	J13.1R	13.7	12.7	10.9
27	C	C	C	8.2F	J7.1F	6.8	8.5	11.6	12.7	12.6	C	11.6
28	8.4	9.2	7.6	6.8	J6.2s	J6.3s	8.5	11.2	13.0	13.0	10.6	9.8
29	U8.2F	8.0	7.4	7.4	6.4	5.4	7.6	10.7	12.5	J13.2R	11.6	10.4
30	8.9	8.8	9.0	8.6	C	6.5	8.2	11.3	12.3	12.0	11.3	10.9
31	U6.8F	U7.4s	7.6	8.3	8.3	7.6	8.4	11.0	12.7	11.7	11.3	10.8
Count	26	26	27	28	29	31	30	31	30	31	30	31
Median	9.1	9.2	8.9	8.6	8.3	6.8	8.4	11.4	12.7	13.0	11.8	10.9
Mean	9.3	9.0	8.7	8.6	7.8	6.6	8.6	11.4	12.7	12.8	12.0	11.4

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : January 1958

TABLE 1—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
13.1	13.0	12.4	U10.4W	10.0	10.6	9.9	9.8	9.1	8.5	8.9	8.2	1
U12.4W	11.0	U10.4W	U10.6W	10.4	10.2	U9.5s	9.0	U9.6s	U9.3s	8.5	7.0	2
13.1	12.7	11.8	10.9	10.5	10.0	9.6	8.6F	8.4F	8.0F	7.7V	U7.2F	3
11.5	11.4	11.3	10.8	10.7	10.6	U9.8s	U8.4WF	U7.4F	U7.3F	F	F	4
12.6	12.8	12.5	U12.2R	U11.6R	11.1	10.2	7.9F	8.8F	U9.4R	J10.3R	10.4	5
10.3	10.1	10.2	10.0	9.7	U9.6s	9.1	U8.3W	8.3	8.6	8.7	8.8	6
11.0	11.4	11.6	12.0	11.9	U11.6s	U9.7s	U8.6W	F	F	U7.5F	7.8F	7
10.6	10.9	11.0	11.8	12.1	11.8	10.6	F	F	F	F	10.6F	8
10.8	11.6	C	C	12.4	U11.8s	U11.0W	F	8.1	F	U8.7F	U9.4F	9
10.7	11.3	11.6	12.0	12.2	12.2	U11.6s	11.0	11.7	13.0	12.6	U11.9s	10
U10.3W	10.9	11.5	12.1	12.8	12.5	U11.6s	F	F	U9.6F	U9.0F	U8.4F	11
11.4	11.7	12.0	11.7	U11.5s	11.4	10.2	9.4	9.4	10.2	U9.8s	U10.4R	12
U11.6W	11.3	10.8	U10.4W	U10.0W	U9.6s	9.0	F	F	U9.2F	J10.2R	J10.2R	13
U9.5W	U9.4W	U9.2W	9.0	9.3	9.0	8.0	F	F	F	U8.5F	U9.0F	14
10.0	10.6	11.4	11.8	12.5	12.8	J12.0R	11.3	U12.2R	U11.7s	U11.5s	11.1	15
10.1	9.8	9.4	9.5	9.8	U9.4s	8.4	8.0	U8.1F	F	8.4	8.4	16
10.4	9.8	9.8	10.0	10.5	10.8	11.4	11.4	U11.1R	12.1	12.3	11.2	17
10.8	10.0	9.8	10.0	10.0	U9.5s	8.6	8.8	8.9	9.3	U9.8s	U9.6s	18
11.4	11.9	12.5	12.6	12.5	U11.8s	10.4H	8.2	U7.8F	F	8.8	U8.8R	19
10.0	10.5	10.9	11.3	11.0	10.4	9.0	F	U7.5F	F	F	J7.8F	20
15.3	14.8	14.1	14.0	14.5	14.0	12.5H	F	F	F	F	F	21
10.8	11.8	12.1	12.4	12.2	U11.5s	8.9	F	U7.6F	U9.3F	U9.6s	10.6	22
J12.0R	12.7	13.3	13.4	13.2	13.8	13.4	U12.6R	R	12.8	12.8	13.2	23
10.4	10.8	11.1	11.5	U11.7s	11.5	10.7	10.1	9.6	9.9	9.9	10.3	24
11.0	10.2	9.8	10.2	10.6	10.9	J10.0s	F	F	F	9.9	U9.4s	25
11.4	12.0	11.9	11.6	10.9	9.8	U9.5s	8.9F	F	F	F	C	26
11.6	11.8	12.0	12.2	12.5	U11.8s	S	F	F	F	F	8.3	27
10.3	10.7	11.0	11.3	11.4	11.2	10.4	F	F	F	U9.8F	U9.0s	28
10.6	11.0	11.2	11.6	11.6	11.0	10.0	U9.6S	U9.6s	U9.8s	U9.5s	9.4	29
10.8	11.0	11.6	11.8	11.5	10.4	9.7	9.2	8.2	J7.4F	F	F	30
10.5	11.0	11.4	11.6	11.9	11.9	U11.8s	U10.2R	F	U10.6F	U11.4s	U11.8Fs	31
31	31	30	30	31	31	30	20	19	19	24	27	Count
10.8	11.0	11.4	11.6	11.5	11.1	10.0	9.1	8.8	U9.4	U9.7	9.4	Median
11.2	11.3	11.3	11.4	11.4	11.1	10.2	9.5	9.0	U9.8	U9.8	9.6	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : January 1958

TABLE 2

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1									L	L	L	L
2								L	L	L	L	L
3									L	L	L	L
4									L	L	L	L
5									L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L _H
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21									L	L	L	L
22									L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L _H
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Count							
Median							
Mean							

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : January 1958

TABLE 2
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
L	L	L	L	L								4
												5
L	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
												9
L	L	L	L	L								10
L	L	L	L	L								11
L	L	L	L	L								12
L	L	L	L	L								13
L	L	L	L	L								14
L	L	L	L	L								15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
L	L	L	L	L								31
..	I	..	..	..	..							Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : January 1958

TABLE 2—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13							L	L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	C	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L _h	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Count							
Median							
Mean							

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : January 1958

TABLE 2—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L L L L L	L L L L L	L L L L L	L L L L L	L								1
												2
												3
												4
												5
L L L L L	L L L L L	L L L L L	L L L L L									6
												7
												8
												9
												10
L L L L L _H	L L L L L	L L L L L	L L L L L	L L L L L								11
												12
												13
												14
												15
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								16
												17
												18
												19
												20
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L							21
												22
												23
												24
												25
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								26
												27
												28
												29
												30
L	L	L	L	L								31
...	..	..	..	..	..							Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc

Month : January 1958

TABLE 3
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3.0	B	3.7	4.1	4.5
2								2.9	3.5	4.0	A	B
3								2.8	3.3	4.0	A	A
4								2.5	A	A	A	A
5								R	A	A	A	B
6								2.7	3.4	A	A	A
7								2.8	A	A	A	A
8								2.6	A	A	A	A
9								U2.6R	A	A	A	A
10								2.6	3.4	A	A	A
11								A	A	A	A	A
12								2.4	A	A	A	A
13								A	3.5	A	A	A
14								A	A	A	A	A
15								2.5	3.4	A	B	B
16								2.7	A	A	A	A
17							1.8	2.6	3.6	3.8	U4.2A	A
18								2.6	3.3	A	A	A
19								U2.6A	A	A	A	A
20								2.8	A	A	A	A
21									3.3	3.8	4.0H	U3.9R
22								U2.5A	A	A	A	A
23								2.5H	U3.0A	A	A	A
24								U2.7F	A	A	A	A
25								2.2	A	A	A	A
26								U2.4R	3.3H	A	A	A
27								A	C	A	A	B
28								2.5H	3.2H	A	A	A
29								2.5	3.2	A	A	A
30								2.6	A	A	A	A
31								U2.6R	A	A	A	A
Count							1	25	13	5	3	2
Median							..	2.6	3.3	3.8	..	..
Mean							..	2.6	3.3	3.9	..	..

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

III

Characteristic : foE
Unit : Mc
Month : January 1958

TABLE 3
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
4.4 A A A A	A A A A	A A A A	A A A A	A A A A	A A A A							1
												2
												3
												4
												5
A A A A A	A A A A A	A A A A A	A A A C A	A C R A A	A A 2.7 A A							6
												7
												8
												9
												10
A A A A B	A A A A A	A B A A A	3.8 A A A A	3.5 A A A A	A A A A A							11
												12
												13
												14
												15
A A A A A	A A A A A	A A A A A	A A A A A	A A A A A	A 2.7 A A A							16
												17
												18
												19
												20
3.9 A A A A	U4.0A A A A A	C U4.0A A A A	C U3.6A C A B	U3.4A 3.4 C A A	A A A 2.7 A							21
												22
												23
												24
												25
A A A A A	A B A A A	A A A A A	A A A A A	A A A A A	A F A A A							26
												27
												28
												29
												30
A	A	A	A	A	A							31
2	1	1	2	3	3							Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE
Unit : Mc
Month : January 1958

TABLE 3—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1												
2								3.1	3.6	4.0	4.3	4.4
3							2.3	3.1	3.7	A	A	A
4								3.0	A	A	A	A
5								3.0	A	A	A	A
6								2.9	A	A	A	A
7							2.1	3.1	A	A	A	A
8								A	A	A	A	A
9								A	A	A	A	A
10								U3.1R	A	A	A	A
11								U3.1R	A	A	A	A
12								A	A	A	A	A
13							A	3.0	A	A	A	A
14								3.2	A	A	A	A
15							1.9H	A	A	A	A	A
16								3.0	A	A	B	A
17							2.1	A	C	A	A	A
18							2.4	3.2	3.7	A	A	A
19								3.0	3.6	A	A	A
20								A	A	A	A	A
21								A	A	A	A	A
22								3.0	U3.4A	3.9H	4.0H	4.0
23								A	A	A	A	A
24								2.9H	A	A	A	A
25								A	A	A	A	A
26								A	A	A	A	A
27								3.0	3.5H	A	A	A
28							R	A	A	A	C	A
29								3.0H	A	A	A	A
30								2.8	A	A	A	A
31								A	A	A	A	A
Count .							5	18	6	2	2	2
Median .							2.1	3.0	3.6	..	..	..
Mean .							2.2	3.0	3.6	..	..	..

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : foE
Unit : Mc
Month : January 1958

TABLE 3—*contd.*
Ionospheric Data
75 0°E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.3 A A A A	A A A A	A A A A	A A A A	A A B A								1
												2
												3
												4
												5
A A A A A	A A A A A	A A A C A	3.6 u3.7R R C A	A A R A A								6
												7
												8
												9
												10
A A A A A	A A A A A	A A A A B	3.6 A B A u3.6R	A A A A A								11
												12
												13
												14
												15
A A A B A	A A A A A	A A A A A	A A A A A	A A A A A								16
												17
												18
												19
												20
4.0 A A A A	3.8 u4.0A A A A	A A A A A	A 3.6 3.7 u3.4A B	u3.1A A A 3.0 A	A							21
												22
												23
												24
												25
A A A A A A	A A A A A A	B A A A A A	3.5 u3.6F A A A A	u3.1A u3.0A A A A A								26
												27
												28
												29
												30
A	A	A	A	A								31
2	2	..	9	4	..							Count
..	..	..	3.6	..	..							Median
..	..	..	3.6	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : January 1958

TABLE 4
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	4.6							G	G	G	G	G
2		3.4						G	6.8	8.3	10.0	10.6
3	4.8							G	8.0	9.0	11.2	11.0
4							7.8	G	8.0	9.6	12.0	11.6
5								G	8.0	9.0	10.8	11.0
6	7.0							G	8.6	9.0	12.2	12.0
7								U7.0s	9.8	9.6	11.2	12.0
8								G	9.0	11.0	12.0	12.0
9	2.8	8.0	7.0					G	9.0	10.6	11.4	11.8
10								G	G	10.8	12.0	12.0
11	2.8	3.2										
12								8.6	10.0	11.0	11.6	12.0
13								G	8.4	11.4	12.0	12.0
14								6.8	G	9.6	11.0	11.5
15								7.5	8.6	10.6	12.4	12.0
16								7.0	G	8.6	11.4	11.0
17							5.0	7.0	9.2	9.0	11.6	11.8
18							G	G	G	G	10.4	11.6
19								G	G	8.2	10.8	11.5
20								5.6	8.6	10.2	11.0	11.4
21								5.6	9.0	9.6	11.8	11.8
22									G	G	4.9	G
23								6.8	9.0	9.8	11.2	11.4
24								5.0	7.0	8.8	11.4	11.2
25								G	9.0	10.6	11.6	11.5
26								G	7.4	10.5	11.6	11.8
27	C	C	C					3.2	3.8	7.0	11.6	11.0
28						C		U5.8s	C	9.4	11.4	10.8
29								G	G	9.6	11.4	11.2
30	3.0							G	G	9.6	11.0	11.4
31								G	8.4	9.2	11.2	11.2
								G	8.6	9.2	11.0	11.0
Count . .	6	3	1	..	..	..	3	30	30	31	31	31
Median . .	3.8	..	..	..	..	..	..	G	8.0	9.6	11.4	11.5
Mean . .	4.2	..	..	..	..	..	..	6.3	8.3	9.6	11.2	11.5

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : January 1958

TABLE 4

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
G	11.0	11.8	11.8	8.8								1
11.6	11.8	12.0	11.6	9.8	8.0							2
10.6	11.4	11.8	11.0	8.2								3
11.2	11.1	11.0	11.8	8.8								4
10.8	11.0	11.0	10.6	8.6							2.7	5
12.0	12.0	12.0	11.6	8.0	7.4							6
11.6	11.6	11.0	10.0	C	8.0							7
12.0	12.0	11.4	9.0	5.1	G							8
12.0	11.6	9.0	C	8.0	7.6							9
11.6	12.0	11.8	10.6	8.0	12.6							10
12.2	12.0	11.6	G	6.5	7.8							11
11.5	11.3	11.0	12.0	12.1	10.1							12
12.0	11.6	11.4	11.4	9.0	8.8				3.1			13
12.0	12.0	11.6	11.8	8.6	7.0	2.0						14
11.4	12.0	11.4	8.6	4.2	3.8							15
10.6	11.4	11.2	11.0	9.0	7.0							16
12.0	11.6	11.4	11.0	8.2	7.0		3.0	3.1				17
11.8	11.6	11.8	11.0	8.0	8.0							18
11.2	11.0	11.0	10.0	8.2	7.0						4.2	19
11.4	11.6	11.0	9.8	8.0	8.0							20
5.5	8.4	C	C	6.2	7.8							21
11.4	11.0	10.0	9.0	7.8	7.0							22
11.4	9.0	9.0	C	C	7.4							23
12.0	12.0	11.6	10.4	8.2	7.8							24
11.2	11.6	11.4	11.2	8.7	7.4							25
11.6	11.2	11.0	10.6	8.0	8.0							26
10.7	10.0	10.7	10.0	8.0	7.0							27
11.8	11.6	11.0	10.2	7.8	8.0							28
11.6	11.4	11.0	11.0	8.8	8.2	2.8		2.2				29
11.2	11.6	11.0	10.6	8.2	7.0							30
11.0	11.0	10.8	11.0	8.0					5.6		8.0	31
31	31	30	28	29	26	2	1	2	2	..	3	Count
11.5	11.6	11.1	10.8	8.2	7.7	..	..	..	..	..	..	Median
11.3	11.3	11.1	10.7	8.1	7.7	..	..	..	..	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs
Unit : Mc
Month : January 1958

TABLE 4—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	7.8							G	G	G	G	9
2		6.6					G	G	G	11.6	11.0	11.4
3								G	10.0	10.8	11.2	11.0
4								6.4	8.2	11.8	11.8	11.4
5		3.5						G	9.0	10.6	11.0	11.0
6		3.0					G	8.0	8.6	11.6	12.0	12.0
7								8.8	9.0	11.8	11.8	12.0
8								8.4	10.4	12.0	12.0	12.4
9	3.6	8.0	8.0					8.2	10.0	11.4	12.0	12.0
10								G	10.2	12.1	12.0	12.0
11	4.0							8.5	10.4	12.0	12.2	12.4
12							3.4	G	9.6	12.4	12.0	12.0
13								G	7.4	11.6	11.6	12.0
14								7.8	9.4	11.3	11.8	12.0
15								G	8.6	11.4	11.0	11.8
16							G	7.2	C	11.6	11.8	11.6
17							G	G	C	9.8	12.0	12.0
18								G	7.0	10.6	11.6	11.6
19								8.6	9.6	11.4	11.8	12.0
20								8.0	9.0	11.2	11.6	12.0
21								G	8.7	G	G	G
22							2.4	7.0	10.0	11.0	11.4	11.2
23								G	7.8	10.2	11.5	11.6
24								7.0	9.0	11.4	10.8	11.5
25								6.5	9.1	11.8	11.6	11.5
26								3.6	G	11.8	11.6	11.4
27								7.0	8.6	10.8	C	11.4
28							G	G	8.0	10.8	11.4	11.6
29								G	8.8	11.8	11.6	11.8
30					C			7.0	8.6	11.0	11.0	11.0
31								7.0	8.4	10.6	12.0	11.0
Count . .	3	4	1	..	..	..	7	31	30	31	30	31
Median . .	..	..	..	..	..	..	G	6.4	8.8	11.4	11.6	11.6
Mean . . .	..	..	..	..	..	..	..	7.4	9.0	11.3	11.6	11.7

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : January 1958

TABLE 4—*contd.*

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
6.2	12.0	12.0	9.0	8.4				3.2	3.8			1
12.0	12.0	12.0	9.0	8.8								2
11.0	11.6	11.0	8.4	8.0								3
11.6	11.0	11.0	9.0	8.0								4
10.8	11.0	10.6	8.6	7.8								5
12.2	12.0	12.0	8.8	7.8								6
12.0	11.0	10.6	G	8.4								7
12.2	11.4	10.4	5.2	4.6								8
11.4	10.8	C	C	8.0								9
11.8	11.8	10.8	11.8	11.0	3.2						4.0	10
12.0	12.0	11.0	G	7.8	4.5							11
11.8	11.2	12.0	11.5	10.1								12
11.0	11.0	11.6	10.0	8.8								13
12.0	11.4	11.4	8.7	8.3								14
11.8	11.2	10.8	G	3.8								15
11.6	11.8	11.2	8.8	8.6								16
11.4	11.2	11.6	8.6	7.8		2.6	5.0	5.4		4.0		17
11.6	11.8	11.0	9.0	8.2								18
11.0	11.4	10.6	8.2	8.0	4.0					4.2		19
12.0	11.4	10.8	8.0	8.0								20
G	6.6	8.2	7.6	8.0								21
11.6	11.4	8.8	7.4	8.2								22
11.0	10.8	10.0	8.4	8.0								23
11.6	11.6	11.8	8.2	7.8								24
11.4	11.0	11.4	9.2	8.6	12.6							25
11.6	11.0	10.6	8.4	8.6								26
11.0	11.0	10.8	7.8	7.7								27
11.8	11.0	10.4	8.4	8.3								28
11.2	11.0	11.0	8.6	9.0	8.0			2.3			3.8	29
11.6	11.2	11.2	8.0	8.0								30
11.4	11.0	11.2	8.0	7.6	3.5				4.6	5.6		31
31	31	30	30	31	6	1	1	3	2	3	2	Count
11.6	11.2	11.0	8.4	8.0	4.2	..	..	..	..	..	..	Median
11.4	11.2	10.9	8.3	8.1	6.0	..	..	..	..	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs :

Unit : Mc

Month : January 1958

TABLE 5

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2.2											
2		2.4								4.1	4.2	4.9
3	2.0								3.5	4.0	4.2	4.3
4									3.4	3.8	4.1	4.3
5									3.4	4.0	4.2	4.9
6	2.6								3.4	3.9	4.2	4.4
7								2.8	3.5	4.0	4.1	4.3
8									3.5	4.1	4.2	4.5
9	2.2	2.8	2.9						3.4	4.1	4.3	4.4
10										3.9	4.2	4.3
11	2.6							2.6	3.4	3.8	4.2	4.4
12									3.6	3.8	4.2	4.5
13										4.0	4.2	4.4
14								2.8	3.5	4.0	4.3	4.4
15										4.0		5.0
16								2.8	3.6	4.0	4.4	4.5
17											4.3	4.6
18										4.0	4.2	4.5
19								2.7	3.4	4.2	4.2	4.4
20								2.6	3.4	4.0	4.3	4.3
21												
22								2.6	3.4	3.8	4.2	4.3
23									3.2	3.8	4.0	4.2
24									3.3	3.7	4.0	4.3
25									3.2	3.6	4.0	4.2
26										4.3	4.1	4.3
27	C	C	C			C		2.6	C	3.8	4.0	
28										3.6	4.0	4.3
29										3.6	4.0	4.4
30									3.2	3.8	4.1	4.2
31									3.3	3.8	4.0	4.2
Count . .	5	2	1	..	..	..	..	8	19	28	28	28
Median . .	2.2	..	..	..	..	..	..	2.6	3.4	4.0	4.2	4.4
Mean . . .	2.3	..	..	..	..	..	..	2.7	3.4	3.9	4.2	4.4

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : January 1958

TABLE 5

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
	4.5	4.3	4.0	3.4								1
4.6	4.3	4.2	4.0	3.4	2.8							2
4.6	4.4	4.3	3.9	3.6								3
4.4	4.4	4.1	3.8	3.3								4
4.5	4.3	4.1	3.8	3.3							2.2	5
4.6	4.4	4.1	3.9	3.5	2.6							6
4.4	4.3	4.1	4.0	G	2.7							7
4.4	4.4	4.1	4.2	4.2								8
4.4	4.4	4.2	G	3.5	3.0							9
4.4	4.4	4.2	4.6	3.4	9.8							10
4.5	4.4	4.2			2.7							11
4.4	4.4		4.0	3.4	2.6							12
4.5	4.6	4.2	4.0	3.7	2.7				1.8			13
4.6	4.4	4.4	3.9	3.5	2.7							14
	4.6	4.2	4.0	3.8	3.0							15
4.6	4.5	4.3	4.0	3.6	2.8							16
4.6	4.6	4.3	4.0	3.6	2.8		1.8	2.6				17
4.6	4.6	4.2	3.8	3.7	3.0							18
4.5	4.6	4.2	4.0	3.5	2.8						2.6	19
4.5	4.4	4.3	3.8	3.6	3.0							20
	4.3	G	G	3.5	2.8							21
4.4	4.4	4.2	3.8	3.5	2.7							22
4.2	4.3	5.4	G	G	3.0							23
4.4	4.4	4.1	3.8	3.4								24
4.3	4.4	4.2		3.7	2.7							25
4.5	4.5	4.1	4.0	3.4	2.8							26
4.4		4.1	3.9	3.8								27
4.4	4.4	4.0	3.7	3.4	2.8							28
4.5	4.2	4.0	3.6	3.4	2.8	2.0		2.0				29
4.2	4.2	4.0	3.7	3.4	2.7							30
4.4	4.2	4.0	3.8	3.6					2.6		3.2	31
28	30	29	26	28	23	1	1	2	2	..	3	Count
4.4	4.4	4.2	3.9	3.5	2.8	..	..	..	..	..	..	Median
4.4	4.4	4.2	3.9	3.5	3.1	..	..	..	..	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs
Unit : Mc
Month : January 1958

TABLE 5—contd.
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.4											
2		2.9										
3										4.2	4.4	4.4
4									3.6	4.1	4.5	4.5
5		2.2						3.0	3.7	4.1	4.2	4.3
6									3.6	4.1	4.3	4.4
7		2.2										
8								3.0	3.7	4.0	4.3	4.4
9								3.1	3.8	4.1	4.2	4.4
10	2.5	3.2	2.4					3.1	3.8	4.1	4.4	4.4
11								3.2	3.7	4.2	4.4	4.4
12	2.4								3.6	4.0	4.2	4.4
13								3.0	3.6	4.0	4.4	4.4
14							2.6		3.8	4.0	4.4	4.5
15								3.2	3.7	4.2	4.3	4.5
16									3.8	4.2	4.4	4.5
17										4.3		5.0
18								3.2	C	4.2	4.4	4.5
19										4.0	4.4	4.6
20								3.0	3.8	4.1	4.3	4.5
21								3.1	3.7	4.0	4.4	4.4
22										4.0	4.2	4.4
23									3.6			
24							2.4	3.0	3.6	4.0	4.2	4.4
25									3.4	4.0	4.2	4.3
26								3.0	3.5	4.0	4.2	4.4
27								3.0	3.5	3.8	4.1	4.2
28	C	C	C									
29								3.0	3.6	3.9	4.2	4.4
30									3.4	4.0	C	4.4
31					C			3.0	3.4	4.0	4.2	4.4
								3.0	3.6	4.0	4.2	4.4
Count . .	3	4	1	..	..	..	2	16	25	29	27	29
Median . .	..	..	..	..	..	..	..	3.0	3.6	4.0	4.3	4.4
Mean . .	..	..	..	..	..	..	..	3.0	3.6	4.0	4.3	4.4

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs
Unit : Mc
Month : January 1958

TABLE 5—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
5.4	4.4	4.1	3.8	3.1				2.1	2.2			1
4.5	4.4	4.0	3.3	3.2								2
4.4	4.4	4.0	3.8	3.3								3
4.4	4.2	4.0	3.6	3.0								4
4.5	4.2	4.0	3.7	3.1								5
4.6	4.3	4.0	3.7	3.1								6
4.4	4.1	4.0		3.2								7
4.4	4.4	4.0	4.3	3.3								8
4.4	4.3	C	C	3.2								9
4.4	4.3	4.0	4.0	5.2	2.4							10
4.4	4.3	4.0		3.1								11
4.4	4.3	4.2	3.8	3.1								12
4.6	4.4	4.2		3.3								13
4.6	4.4	4.2	3.8	3.0								14
4.6	4.4			3.3								15
4.4	4.4	4.3	4.0	3.3				2.7				16
4.4	4.4	4.2	4.0	3.2								17
4.6	4.4	4.0	4.0	3.4								18
4.4	4.4	4.0	3.8	3.2	2.2					2.6		19
4.4	4.4	4.1	3.8	3.3								20
		4.0	5.0	3.2								21
4.4	4.3	4.0		3.2								22
4.2	4.2	4.2		3.2								23
4.4	4.2	4.0	3.7	3.1								24
4.4	4.3	4.0		3.3	4.6							25
4.5	4.3			3.2							C	26
4.4	4.2	4.0		3.0								27
4.4	4.2	4.0	3.8	3.2							2.4	28
4.2	4.2	4.0	3.6	3.2	2.6			2.0				29
4.4	4.2	4.0	3.6	3.0								30
4.4	4.2	4.0	3.8	3.2	2.8				2.7	3.0		31
29	30	28	21	31	5	..	..	3	2	2	1	Count
4.4	4.3	4.0	3.8	3.2	2.6	..	..	..	..	..	..	Median
4.5	4.3	4.0	3.8	3.2	2.9	..	..	..	..	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin
Unit : Mc
Month : January 1958

TABLE 6
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	1.4	1.8	1.8	2.0	1.6	2.0	1.7	2.2	3.0	3.1	3.3	3.4
2	2.0	1.9	1.6	1.7	1.4	2.0	1.7	2.1	2.5	2.4	2.7	4.9
3	1.5	1.8	1.6	1.3	1.7	1.6	1.7	2.0	2.1	2.6	3.0	3.1
4	2.0	1.9	2.1	2.3	2.1	2.0	1.6	2.0	2.2	2.6	2.7	2.6
5	2.0	2.0	2.0	1.7	1.9	1.9	1.6	2.3	2.3	2.6	2.8	4.9
6	1.6	1.7	2.3	1.7	1.5	1.9	1.6	1.7	2.2	2.6	2.5	2.8
7	2.0	1.7	1.7	1.4	1.8	2.2	1.7	2.0	2.4	2.6	2.6	2.7
8	2.0	2.8	2.4	2.0	2.3	1.8	1.7	2.1	2.3	3.0	3.0	3.0
9	2.2	2.2	2.0	2.2	2.2	1.8	1.6	2.3	2.6	3.0	3.1	3.0
10	2.2	1.8	1.7	1.7	1.7	1.8	1.6	2.1	2.3	2.6	2.6	3.0
11	2.2	2.4	2.0	1.9	2.1	2.1	1.6	1.8	2.1	2.4	2.6	2.7
12	1.7	1.9	2.0	1.6	2.0	1.7	1.5	2.1	2.3	2.8	2.6	2.8
13	1.8	2.1	2.0	2.0	1.6	1.7	1.6	2.1	2.4	2.6	2.8	3.1
14	1.7	2.1	2.2	2.2	1.7	1.8	1.8	1.8	2.4	2.6	3.0	3.2
15	1.9	2.2	2.2	2.0	1.5	2.2	2.0	2.1	2.4	3.0	4.6	4.0
16	2.0	2.2	2.1	2.0	2.3	2.4	1.6	1.7	2.2	2.6	2.8	2.8
17	2.0	1.8	2.2	2.2	1.9	1.8	1.7	2.2	2.4	2.9	3.0	3.2
18	2.4	2.6	2.4	2.0	2.1	1.7	2.0	1.8	2.4	2.6	2.8	3.1
19	2.1	2.2	2.0	2.0	2.1	2.0	2.4	1.8	2.2	2.8	2.8	2.8
20	2.8	2.4	1.7	1.7	1.6	1.7	1.6	1.8	2.4	2.5	2.6	2.8
21	2.2	2.2	1.6	1.7	2.1	1.8	1.9	2.8	2.8	3.0	3.2	3.2
22	2.4	2.0	2.2	2.2	2.2	2.2	1.4	1.7	2.2	2.6	2.8	3.0
23	2.0	1.9	1.7	2.2	2.0	2.2	1.7	2.0	2.1	2.2	2.6	3.0
24	2.2	2.2	2.2	2.0	2.2	1.8	1.7	2.2	2.4	3.0	2.8	3.0
25	2.2	1.8	1.8	1.5	1.6	1.9	1.6	2.0	2.2	2.6	3.0	2.8
26	1.9	2.2	1.7	2.1	1.8	2.0	1.7	2.0	2.4	3.0	2.9	3.0
27	C	C	C	2.4	2.2	C	1.4	2.0	C	2.8	2.8	3.8
28	2.2	2.0	2.2	1.9	2.0	2.0	1.4	1.7	2.4	2.4	2.8	2.7
29	1.9	2.2	2.0	2.6	2.3	2.2	1.6	2.1	2.6	2.6	2.7	3.0
30	1.9	1.8	1.7	1.7	1.7	1.9	1.4	1.9	2.0	2.4	2.6	2.8
31	2.0	2.2	2.6	2.1	2.0	2.2	1.8	2.2	2.2	2.4	2.5	2.7
Count .	30	30	30	31	31	30	31	31	30	31	31	31
Median .	2.0	2.0	2.0	2.0	2.0	1.9	1.6	2.0	2.4	2.6	2.8	3.0
Mean .	2.0	2.0	2.0	1.9	1.9	1.9	1.7	2.0	2.3	2.7	2.9	3.1

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin
Unit : Mc
Month : January 1958

TABLE 6
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
3.8	3.4	3.0	2.5	2.4	2.2	1.4	1.7	2.0	2.1	2.0	1.7	1
3.2	3.0	2.6	2.4	2.4	2.2	1.5	1.4	1.6	2.1	1.9	2.2	2
3.2	3.0	2.8	2.6	2.8	2.8	1.7	2.2	2.3	2.0	1.8	2.4	3
2.8	2.8	2.5	2.4	2.4	2.6	1.6	1.6	2.1	2.0	2.1	1.6	4
3.3	3.2	2.8	2.5	2.4	2.8	1.5	2.4	2.2	2.0	1.9	1.8	5
3.0	2.8	2.4	2.3	2.2	2.0	1.6	1.8	1.9	1.6	1.7	2.1	6
3.0	2.8	2.8	2.7	C	2.2	1.6	1.7	2.2	2.0	2.4	1.9	7
3.0	3.2	2.8	2.5	2.4	2.0	1.7	1.8	2.1	2.3	2.2	2.0	8
3.0	3.2	2.8	C	2.5	2.1	1.7	2.0	2.0	2.2	2.2	2.4	9
3.0	2.9	2.7	2.6	2.5	2.1	1.6	2.1	2.2	2.0	2.3	2.1	10
3.0	2.8	2.5	2.2	2.5	1.7	1.6	1.3	1.6	1.7	1.8	1.5	11
3.0	2.6	4.6	2.5	2.1	1.9	1.6	1.4	2.0	2.0	2.0	1.9	12
2.8	3.0	2.6	2.4	2.8	2.1	1.6	1.7	2.2	1.3	1.6	1.8	13
3.2	3.1	2.8	2.4	2.6	1.9	1.5	1.7	2.1	2.2	2.1	1.7	14
5.2	3.1	2.7	2.7	3.0	2.2	1.7	2.0	2.2	2.0	2.1	2.2	15
3.0	3.0	2.8	2.6	2.3	2.1	1.8	2.2	2.2	2.3	2.2	2.0	16
3.2	3.0	2.7	2.6	2.6	2.3	1.6	1.3	1.6	2.0	1.7	2.6	17
3.4	3.0	2.8	2.4	2.5	2.2	1.7	1.7	2.0	2.2	2.0	2.2	18
2.8	3.2	2.8	2.6	2.2	1.7	1.6	2.2	2.2	2.2	2.4	2.4	19
3.0	3.0	2.9	2.4	2.6	2.2	1.7	2.0	2.2	2.2	2.1	2.2	20
3.2	2.9	C	C	2.5	2.2	1.7	1.9	2.3	2.2	2.2	2.3	21
3.0	3.2	2.8	2.6	2.6	2.2	1.7	2.0	2.3	2.4	1.9	2.0	22
2.8	3.0	3.0	C	C	2.2	1.8	1.6	2.1	2.2	2.5	2.4	23
3.0	3.0	2.6	2.4	2.5	2.2	1.8	1.7	1.5	1.7	2.1	1.7	24
2.9	2.9	2.8	5.0	2.8	1.9	1.8	2.1	2.3	2.1	1.8	2.0	25
3.0	3.4	2.9	2.8	2.8	2.2	1.7	1.4	2.1	2.2	2.2	2.2	26
3.0	3.6	2.8	2.5	2.8	2.3	1.8	2.4	2.5	2.5	3.0	2.3	27
3.1	3.0	3.0	2.4	2.6	2.2	1.8	2.0	2.4	2.4	2.2	2.4	28
3.0	3.0	2.8	2.8	2.5	2.1	1.6	1.9	1.8	2.0	1.8	2.1	29
2.8	2.8	2.6	2.4	2.4	2.0	1.6	1.8	2.2	2.4	2.2	2.0	30
3.1	3.0	2.9	2.6	2.8	3.0	1.9	1.8	2.2	1.7	2.6	2.4	31
31	31	30	28	29	31	31	31	31	31	31	31	Count
3.0	3.0	2.8	2.5	2.5	2.2	1.7	1.8	2.2	2.1	2.1	2.1	Median
3.1	3.0	2.8	2.6	2.5	2.2	1.7	1.8	2.1	2.1	2.1	2.1	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : January 1958

TABLE 6—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1.9	1.8	1.7	1.7	1.8	1.8	2.3	2.6	3.0	3.0	3.4	3.5
2	1.7	1.7	1.5	1.5	1.9	1.5	2.1	2.1	2.8	2.6	2.7	3.2
3	1.5	1.7	1.6	1.6	1.6	1.6	2.2	2.3	2.2	2.7	3.4	3.0
4	2.0	2.0	2.0	2.3	2.0	2.2	2.2	2.0	2.2	2.4	2.8	2.9
5	2.0	1.9	1.8	2.0	2.0	1.9	2.2	2.2	2.4	2.7	2.9	3.2
6	2.2	1.8	2.2	1.7	1.8	1.8	1.6	1.9	2.3	2.4	2.8	2.8
7	2.1	1.8	1.9	1.7	1.9	1.9	2.2	2.2	2.7	2.6	2.8	2.9
8	2.0	2.6	2.1	2.0	2.3	2.2	2.2	2.2	2.6	3.0	2.9	3.0
9	2.3	1.9	2.3	2.6	1.8	2.3	2.2	2.3	3.0	3.0	3.0	3.1
10	2.4	2.2	1.6	1.6	2.2	1.7	2.4	2.2	2.4	2.6	2.8	3.0
11	1.9	2.4	2.0	2.2	2.1	1.8	2.0	2.0	2.2	2.4	2.9	2.8
12	1.9	1.5	1.8	1.5	2.0	1.7	1.9	2.4	2.6	2.6	2.8	3.0
13	1.9	1.6	1.6	2.0	1.7	1.7	2.2	2.4	2.4	2.6	2.8	3.2
14	2.0	2.3	2.2	1.9	1.7	2.0	1.7	2.0	2.4	2.7	3.1	3.2
15	2.0	1.7	1.9	1.6	2.4	2.2	2.4	2.3	2.4	3.4	5.6	3.6
16	1.8	2.1	2.2	2.0	2.4	2.2	1.7	1.9	C	2.4	2.6	3.0
17	1.8	1.8	1.9	2.0	2.3	2.4	2.0	2.4	3.0	3.0	3.2	3.4
18	2.0	2.6	2.3	2.3	2.2	1.9	2.2	2.2	2.6	2.5	2.8	3.2
19	2.2	2.3	1.8	1.6	1.8	1.9	2.6	2.1	2.4	2.6	2.8	3.0
20	2.6	1.9	2.0	1.6	1.8	2.0	2.2	2.2	2.4	2.4	2.8	3.0
21	2.0	1.8	1.7	1.8	1.8	1.8	2.4	2.4	2.6	3.0	3.1	3.0
22	2.2	2.2	2.3	2.3	1.8	1.7	1.6	1.9	2.4	2.5	2.8	3.0
23	1.8	1.6	2.0	2.2	2.0	2.1	2.1	2.0	2.2	2.4	2.7	2.7
24	2.3	2.6	2.4	2.1	2.4	1.9	2.3	2.3	2.6	3.0	3.0	3.0
25	2.3	1.7	1.7	1.7	1.9	1.9	2.2	2.0	2.4	2.6	2.8	3.0
26	1.8	2.2	1.9	1.8	1.8	1.8	2.7	2.1	2.8	2.6	2.9	3.1
27	C	C	C	2.0	2.2	2.0	2.2	2.0	2.6	2.8	C	3.2
28	2.2	1.7	2.0	2.0	2.2	1.9	1.8	2.0	2.4	2.2	2.6	3.0
29	2.1	2.1	2.2	2.2	2.4	2.2	2.1	2.2	2.4	2.7	3.0	3.0
30	1.8	2.1	1.8	2.2	C	1.8	2.0	1.7	2.3	2.6	2.6	2.8
31	1.8	2.0	2.4	2.0	2.2	2.4	2.0	2.2	2.3	2.4	2.6	2.8
Count	30	30	30	31	30	31	31	31	30	31	30	31
Median	2.0	1.9	2.0	2.0	2.0	1.9	2.2	2.2	2.4	2.6	2.8	3.0
Mean	2.0	2.0	2.0	1.9	2.0	1.9	2.1	2.1	2.5	2.7	3.0	3.0

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : January 1958

TABLE 6—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
3.0	3.0	2.6	2.5	2.2	2.1	1.4	2.0	1.6	2.1	1.6	1.8	1
3.6	3.0	2.6	2.4	2.3	2.1	1.3	1.6	1.9	1.9	2.1	2.0	2
3.0	3.0	2.6	3.0	3.3	2.2	1.8	2.1	2.2	2.0	2.1	2.1	3
2.9	2.7	2.4	2.6	2.4	2.1	1.4	1.6	2.0	2.0	2.0	1.7	4
3.4	3.0	2.7	2.7	2.3	2.2	1.7	2.4	2.0	2.0	2.1	2.4	5
3.2	2.7	2.6	2.5	2.2	2.1	1.1	1.6	1.7	1.4	2.1	2.3	6
2.6	2.6	2.8	2.7	2.4	2.2	1.4	2.1	2.2	2.1	1.8	2.0	7
3.0	2.8	2.6	2.5	2.3	2.2	1.2	2.0	2.2	2.1	2.2	2.0	8
3.0	3.0	C	C	2.3	2.2	1.6	2.1	2.0	2.2	2.1	2.4	9
3.1	3.0	2.7	2.7	2.3	2.2	1.4	2.0	2.2	2.1	2.1	2.8	10
2.9	2.7	2.4	2.6	1.9	2.2	1.4	1.7	1.4	1.6	1.4	1.5	11
2.8	2.7	2.8	2.2	1.9	2.3	1.3	1.7	1.8	1.9	1.8	2.2	12
3.0	2.8	2.5	4.0	2.4	2.3	1.5	2.2	2.2	1.7	1.8	2.0	13
3.1	3.0	2.7	2.6	2.2	2.2	1.2	2.0	2.1	2.1	2.2	2.1	14
3.3	3.2	4.2	3.2	2.8	2.2	2.0	2.4	1.8	2.2	2.4	2.2	15
3.0	2.9	3.1	2.8	2.4	2.3	1.5	2.2	2.4	2.4	2.0	1.6	16
3.1	3.2	2.7	3.0	2.4	2.3	1.5	1.6	1.8	1.8	2.4	2.4	17
3.2	2.8	2.6	2.6	2.4	2.3	1.6	1.6	1.7	2.2	2.2	2.1	18
4.8	3.0	2.6	2.6	2.1	1.5	1.2	2.2	2.0	2.2	2.2	2.8	19
2.8	2.8	2.6	2.6	2.4	2.4	1.5	2.0	2.2	2.2	2.2	1.8	20
3.2	2.8	2.6	2.8	2.3	2.3	1.4	2.2	2.3	1.8	2.1	2.3	21
3.0	3.2	2.8	2.8	2.4	2.2	1.9	2.4	2.4	2.4	1.7	1.8	22
3.1	3.0	U3.4C	3.0	2.4	2.3	1.8	1.8	2.0	2.2	2.4	2.1	23
3.0	2.8	2.7	2.6	2.2	2.4	1.4	1.4	1.9	1.8	1.9	1.7	24
3.0	2.8	2.5	4.5	2.2	1.8	1.6	1.7	2.2	2.2	2.0	2.1	25
3.4	3.1	4.8	3.0	2.2	2.3	1.7	2.2	2.4	2.2	2.2	C	26
3.1	3.0	2.8	2.6	2.5	2.3	1.3	2.4	2.5	2.5	2.2	2.2	27
3.0	3.0	2.7	2.6	2.5	2.6	1.7	2.2	2.2	2.2	2.1	1.9	28
2.9	2.9	2.6	2.8	2.3	1.7	1.4	2.0	1.7	1.8	1.9	2.2	29
3.0	2.6	2.4	2.5	2.2	1.8	1.4	1.8	2.6	2.2	2.4	1.9	30
2.9	3.0	2.9	3.0	2.5	2.4	1.6	2.1	2.2	1.7	2.4	2.6	31
31	31	30	30	31	31	31	31	31	31	31	30	Count
3.0	3.0	2.6	2.6	2.3	2.2	1.4	2.0	2.1	2.1	2.1	2.1	Median
3.1	2.9	2.8	2.8	2.3	2.2	1.5	2.0	2.1	2.0	2.1	2.1	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2

Unit : Km

Month : January 1958

TABLE 7
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1									LH	LH	LH	LH
2									LH	LH	LH	LH
3								L	L	LH	LH	LH
4									L	LH	LH	LH
5									L	L	L	L
6									L	L	L	L
7								L	L	LH	L	L
8								L	L	L	LH	L
9									L	L	LH	LH
10								L	L	LH	L	L
11									L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16									L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21									L	L	L	L
22									L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26									L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Count
Median
Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2
 Unit : Km
 Month : January 1958

TABLE 7
 Ionospheric Data
 75.0°E Mean Time

Latitude : 10.2°N
 Longitude : 77.5°E

12	13	14	15	16	17	18	19	20	21	22	23	Date
LH LH LH L L	LH LH LH L L	LH LH LH L L	L LH L L L	L LH L L L								1
L	L	L	L	L								2
L	L	L	L	L								3
L	L	L	L	L								4
L	L	L	L	L								5
L	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	LH	L	L								9
L	L	L	L	L								10
L	L	L	L	L	L							11
L	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
460 L	475 L	C	C	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L	L	L	L	L	L							30
L	L	L	L	L	L							31
..	I	I	..	..	..							Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2
 Unit : Km
 Month : January 1958

TABLE 7—*contd.*
 Ionospheric Data
 75°0'E Mean Time

Latitude : 10°2' N
 Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								LH	LH	LH	LH	LH
2								L	LH	LH	LH	LH
3								L	LH	LH	LH	LH
4								L	LH	LH	L	L
5								L	L	L	L	L
6												
7								L	L	LH	L	L
8								L	L	LH	L	L
9								L	L	LH	L	L
10								L	LH	LH	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14							L	L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21									L	L	L	L
22									L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Count	1
Median
Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2

Unit : Km

Month : January 1958

TABLE 7—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L _H	L _H	L	L	L								1
L _H	L _H	L _H	L	L								2
L _H	L _H	L	L	L								3
L	L	L	L	L								4
L	L	L	L	L								5
L	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	L								11
L	L	L	L	L								12
L	L	L	L	L								13
L	L	L	L	L								14
L	L	L	L	L								15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
L	L	L	L	L								31
I	I	..	..	..	..							Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km

Month : January 1958

TABLE 8
Ionospheric Data
75.0°E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	360	320	320	340	350	320	360	280H	245	235	230	235
2	325	370	365	390	365	285	260	270	245	240	225H	235
3	305	280	260	255	255	250	270	260	240	235	225	220
4	320	320	325F	315	280	240	260	260	240	235	225	225
5	340	300	265	255	240	225	265	260	245	240	230	225
6	300	280	280	260	235	220	275	260	250	235	225	220
7	285	280	260	250	235	225	280	270	250	240	220	215
8	300H	300	300	260	240	215	255	265	245	240	220H	215
9	305	310	310	295	230	215	260	260	245	235	225	215
10	300	270	260	260	235	230	250	260	245	235	220	210
11	300	280	280	275	240	220	250	270	250	240	230	215
12	330	320	380	340	300	230	240	260	240	240	220	215
13	260	280	300	280	240	240	260	260	240	230	220	220
14	280	280	265	280	335	360	320	260	240	235	220	220
15	280	280	275	260	320	410	360H	260	240	235	230	215
16	270	295	280	260	300	300	310	270	250	240	230	220
17	240	260	305	320	300	270	255	260	245	235	230	210
18	280	295	270	260	270	280	260	280	240	235	230	210
19	270	275	280	255	240	250	280	265	240	230	220	220
20	300	280	280	240	230	225	300	265	250	240	220	210
21	300	290	265	255	240	240	250	265	240	235	240	215
22	U385F	320	320	270	240	220	245	260	240	230	220H	200H
23	265	260	245	260	220	220	220	250	235	230	220H	2.0H
24	240	245	280	305	290	225	230	260	240	230	225	210H
25	240	260	255	230	225	225	245	250	230	220	220	210
26	260	285	280	260	220	220	220	250	240	235	210	205
27	C	C	C	240	225	C	245	260	C	225	220	220
28	260	240	240	240	240	240	240	250	230	220	215	200H
29	260	260	260	240	240	220	220	250	230	220	210	210
30	240	240	240	240	240	235	220	255	235	200	210	210
31	260	280	300	290	260	230	220	255	240	225	220	215
Count	30	30	30	31	31	30	31	31	30	31	31	31
Median	280	280	280	260	240	230	255	260	240	235	220	215
Mean	290	285	285	275	260	250	260	260	240	230	220	215

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km

Month : January 1958

TABLE 8

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
230	220	235	245	260	290	360	400	390	350	300	280	1
225H	210H	215H	240	260	285	345	400	340	290	280	300	2
220	220	225	230	255	280	340	420	440	410	370	340	3
220	220	225	235	255H	270	340	470	540	500	480	420	4
215	215	215	220H	250	280	340	475	460	400	340	300	5
220	200H	215	245	255	280	330	470	440	375	325	305	6
210	210	220	240	C	280H	340	U440F	F	F	U400F	325	7
200H	200H	220	250	275	280H	340	F	500F	420F	380	315	8
200H	200H	230	C	245	280H	350H	500	460	435	340	300	9
210	215	230	240	250	A	335	U470F	420	335F	290	295	10
205	205	235	230	240	280	340	460	440	400	360	340	11
210	220	225	240	260	280	340	420	415	300	280	280	12
220	220	220	240	255	280	340	F	U440H	300	270	275	13
220	215	230	235	255	280	350	500	U480F	400	320	270	14
240	220	225	240	260	275	330	440	380	300	280	275	15
220	210	215	245	260	280	340	U120F	F	F	300	260	16
210	220	220	230	255	280	325	375	360	300	250	270	17
225	230	230	250	260	290	350	400	380	310	280	270	18
210	220	220	230	250	280	330	F	U440F	400	340	300	19
200	205	230	240	240	280	340	500	540F	420	380	300	20
220	230	C	C	245	270	320	440	F	F	U345F	F	21
200H	215	220H	235	245	270	325	U490F	F	300	260	265	22
205	200H	A	C	C	275	310	385	340	290	265	265	23
200H	200H	200H	230	240	260	305	360	290	240	240	235	24
210H	200H	205	B	250	265	310	425	F	300	255	255	25
200H	230	225	230	240	265	310	385	420	385F	290	260	26
205	220	220	230	240	260	305	F	F	U405F	320	260	27
200	200	220	220	240	280	310	400	400	U360F	250	250	28
205	200	210	230	240	260	300	360	305	270	260	260	29
210	210	210	225	235	265	300	380	410F	420	390F	320F	30
210	200	220	220	240	270	300	400	F	420	285	270	31
31	31	29	27	29	30	31	27	24	28	31	30	Count
210	215	220	235	250	280	335	420	420	370	300	280	Median
210	210	220	235	250	275	330	430	420	360	315	290	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F
Unit : Km
Month : January 1958

TABLE 8—contd.
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	360	320	335H	360	315	335	300H	260	240H	235	230	220
2	340	U405A	375	370	345	245	285	260	240	235	230H	225H
3	300	275	260	255	255	255	285	255	240	225	225	225
4	325	325	320	300	260	240	280	250	240	230	220	220
5	310	300	245	240	240	235	275	255	240	240	230	220
6	290	290	265	255	230	235	285	250	240	230	220	220H
7	285	275	260	245	225	240	295	250	245	230	215	210
8	300	300	280	240	220	220	285	255	240	230H	205H	205H
9	300	315	305	260	220	220	280	255	240	225	215	210
10	300	270	260	245	240	225	265	255	240	225	215	205
11	280	280	280	270	235	220	290	260	240	230	220	210
12	320	340	360	320	269	220	280	250	240	235	220	220
13	260	285	280	260	240	240	275	250	240	230	220	220
14	280	275	270	310	360	330	300	260	240	220	220	210H
15	280	280	260	280	400	400	285	245	240	230	B	240
16	260	275	265	280	300	290	300	260	C	230	220	210
17	260	280	300	305	290	260	280	245	240	220	220H	220
18	280	290	270	260	290	250	285	260	240	230	220	210
19	275	280	270	250	240	250	290	255	240	230	220	220
20	290	280	260	240	230	260	290	260	250	235	220	210
21	280	285	260	225	235	240	28	255	240	225	220	210H
22	345	340	280	250	220	225	285	245	235	225H	210	200H
23	260	245	260	240	220	220	255	245	235	225	210H	205H
24	260	265	300	300	255	215	270	250	240	230	215	205
25	260	260	240	215	220	235	260	235	225	220	215	210
26	260	290	275	230	220	210	250	245	230	220	210	200H
27	C	C	C	230	225	225	280	245	225H	220	C	220
28	250	240	240	240	240	235	265	240	230	220	200H	200
29	255	260	255	240	220	220	240	240	230	220	200	210
30	240	240	240	240	C	200	270	240	225	210	200	210
31	250	300	300	270	240	220	240	250	240	225	220	210
Count	30	30	30	31	30	31	31	31	30	31	29	31
Median	280	280	270	255	240	235	280	250	240	230	220	210
Mean	285	290	280	265	255	245	280	250	240	225	215	215

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km

Month : January 1958

TABLE 8—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
245	220	240	260	270	310	405	420	380	335	300	300	1
220	220	235	255	270	310	395	380	305	285	290	300	2
220	220	225	240	265	305	395	430	420	400	365	320	3
220	220	225	245	260H	300	410	520	530	500	450	375	4
215	215H	215	245	260	300	415	480	440	350	315	300	5
200H	215	220	250	265	300	405	480	415	340	325	300	6
210	210	225	240	265H	300	400	F	F	F	365	315	7
200H	215	235	255	270H	300H	415	500F	460F	380F	340	305	8
200H	220	C	C	260H	300H	420H	520	440F	390	300	300	9
200H	230	230	240	A	300	405	U460F	390F	300	295	300	10
2200	220	230	240	260	300	420	460	420	360	340	340	11
220	220	240	240	265	300	400	430	340	280	280	275	12
220	220	240	240	270	300	390	F	U340F	300	275	280	13
220	220	230	240	260	310	440	U500F	420	360	300	280	14
200H	220	240	245	265	300	400	420	320	300	280	275	15
215	220	245	260	265	310	400	F	400	360	280	240	16
220	225	235	250	260	300	375	340	340	260	260	265	17
230	240	235	260	270	310	400	400	340	300	275	260	18
220	210	235	245	260	300	400	F	U410F	425	310	300	19
205	225	235	240	260	300	420	540	490	400	340	280	20
205H	230	225	A	255	295	375	F	F	U390F	350	U400F	21
200H	230	225	240	255	295	390	F	U350F	265	255	260	22
200H	210	230	240	250	290	355	380	320	270	270	245	23
200H	205	205H	230	240	280	355	320	260	245	240	240	24
210H	200H	210	B	260	A	360	480	U360F	275	250	265	25
200H	225	B	240	250	285	360	430	400	U330F	260	C	26
195H	220	220	235	250	280	355	F	F	U340F	295	245	27
200	200	220	225	260	290	360	420	U360F	300	240	250	28
200	215	220	240	250	280	330	340	290	260	260	260	29
220	215	220	240	250	280	340	390	420	400	370F	260	30
205	210	220	230	260	280	355	440	465F	365	280	240	31
31	31	29	28	30	30	31	24	28	30	31	30	Count
205	220	230	240	260	300	400	430	395	340	295	280	Median
210	220	230	245	260	295	390	435	385	335	300	285	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E
Unit : Km
Month : January 1958

TABLE 9
Ionospheric Data
75.0°E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								115H	B	110	110	110
2								120H	115H	110	105	B
3								115H	105	105	105	105
4								110H	105	105	A	105
5								120	110	105	105	B
6												
7								110	105	105	A	A
8								115H	110	A	A	A
9								120	105	105	A	A
10								120	110	A	A	A
11								120	110H	A	A	A
12								A	105	105	A	A
13								120	110	110	A	A
14								120	110	110	110	105
15								115	110	105	110	A
16								120	110	110	B	B
17												
18							120	115	110	110	A	A
19							120	115	115	115	115	A
20							120	115	110	110	A	110
21							115	A	A	A	A	A
22									120	110	110	105
23								110	105	A	A	A
24								120	105	A	A	A
25								120	A	A	A	A
26								115	110	A	A	A
27								115	110	A	A	A
28								110	C	A	A	B
29								120	110	105	A	A
30								120	110	110	105	A
31								120	110	110	A	A
Count							1	29	27	21	10	6
Median							..	120	110	110	110	105
Mean							..	115	110	110	110	105

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E
Unit : Km
Month : January 1958

TABLE 9
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
115	110	A	A	105								1
A	A	A	A	A	A							2
105	105	105	105	110								3
A	105	A	A	A								4
A	110	110	110	115								5
A	A	A	A	105	A							6
A	A	105	110	C	120							7
A	A	A	105	110	120							8
105	A	105	C	105	115							9
A	A	A	A	110	A							10
A	A	A	105	110	110							11
A	105	B	110	110	120							12
A	A	A	A	110	A							13
A	A	A	105	110	110							14
B	A	110	110	A	A							15
A	A	A	A	110	115							16
A	A	110	A	115	120							17
110	A	110	A	110	A							18
A	110	A	A	110	A							19
A	A	A	110	120	120							20
110	110	C	C	120	120							21
A	105	A	105	115	115							22
A	A	A	C	C	A							23
A	A	A	105	110	120							24
A	A	A	B	110	A							25
A	A	A	A	110	A							26
A	B	A	A	110	120							27
A	A	A	110	115	120							28
A	A	A	A	115	110							29
A	110	A	110	110	120							30
110	A	110	110	120								31
6	9	8	14	26	16							Count
110	110	110	110	110	120							Median
110	110	110	110	110	115							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : January 1958

TABLE 9—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								115	115	110	110	110
2							140	115H	110H	105	A	A
3								110	105	105	A	A
4								110	105	105	A	A
5								115	105	105	105	105
6							125	110	A	A	A	A
7								110	110	A	A	A
8								110	105	105	A	A
9								115	A	A	A	105
10								115H	A	A	A	A
11								A	105	A	A	A
12							A	120	110	A	A	A
13								120	110	105	105	A
14							140	110	110	105	110	A
15								120	105	110	B	A
16							125	110	C	105	A	A
17							125	120	115	115	110	A
18								120	115	110	110	110
19								115	110	A	A	A
20								115	110	A	A	A
21								120	110	105	105	105
22								105	A	A	A	A
23								110	A	A	A	A
24								115	A	A	A	A
25								110	A	A	A	A
26								110	105	A	A	A
27								110	A	A	C	A
28								115	110	A	A	A
29							140	110	110	105	A	A
30								110	110	A	110	A
31								110	110	A	A	A
Count							6	30	22	14	8	5
Median							130	110	110	105	110	105
Mean							130	115	110	105	110	105

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : January 1958

TABLE 9—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
105	110	A	105	110								1
A	A	A	A	A								2
A	110	105	A	B								3
A	A	A	A	A								4
A	110	110	115	A								5
A	A	A	105	A								6
A	105	105	110	A								7
A	A	A	105	115								8
105	105	C	105	110								9
A	A	A	A	A								10
A	A	105	110	110								11
A	105	110	110	110								12
105	A	A	B	115								13
A	A	105	110	110								14
A	A	B	120	A								15
A	A	A	A	115								16
A	110	A	115	120								17
110	A	110	A	A								18
B	A	110	110	A								19
A	A	110	A	120								20
105	110	105	A	115								21
A	110	A	120	110								22
A	A	115	120	115								23
A	A	A	110	115								24
A	A	A	B	110	A							25
A	A	B	120	110								26
A	A	A	105	120								27
A	A	110	115	120								28
A	A	A	110	115								29
A	A	110	110	110								30
110	A	110	A	120								31
6	9	14	19	21	..							Count
105	110	110	110	115	..							Median
105	110	110	110	115	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : January 1958

TABLE 10
Ionospheric Data
75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	105							G	G	G	G	G
2		100						G	G	100	100	100
3	105							G	100	100	100	100
4							120	G	100	100	100	100
5								G	100	100	100	100
6	110							G	100	100	100	100
7								110	100	100	100	100
8								G	100	100	100	100
9	120	110	105					G	105	100	100	100
10								G	G	100	100	100
11	100	100						105	100	100	100	100
12								G	100	100	100	100
13								105	G	100	100	100
14								105	100	100	100	100
15								140	G	100	100	100
16							110	110	100	100	100	100
17							G	G	G	100	100	100
18								G	G	100	100	100
19								110	110	100	100	100
20								110	105	100	100	100
21									G	G	120	G
22								105	100	100	100	100
23								130	100	100	100	100
24								G	100	100	100	100
25								G	100	100	100	100
26								125	140	120	100	100
27	G	G	G			C		105	G	100	100	100
28								G	G	100	100	100
29								G	G	100	100	100
30	110							G	100	100	100	100
31								G	100	100	100	100
Count	6	3	1	..	..	..	2	12	20	28	30	29
Median	110	..	..	..	..	..	..	110	100	100	100	100
Mean	110	..	..	..	..	..	..	115	105	100	100	100

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : January 1958

TABLE 10

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
G	100	100	100	100								1
100	100	100	100	100	110							2
100	100	100	100	100								3
100	100	100	100	105								4
100	100	100	100	100							110	5
100	100	100	100	100	110							6
100	100	100	100	G	110							7
100	100	100	100	120	G							8
100	100	100	C	105	110							9
100	100	100	100	105	110							10
100	100	100	G	100	105							11
100	100	100	100	100	100							12
100	100	100	100	105	115				120			13
100	100	100	100	100	105	160						14
100	100	100	100	120	120							15
100	100	100	100	105	110							16
100	100	100	100	100	110		110	120				17
100	100	100	100	100	115							18
100	100	100	100	100	110						110	19
100	100	100	100	100	110							20
115	100	C	C	120	105							21
100	100	100	100	100	105							22
100	100	100	C	C	105							23
100	100	100	100	100	105							24
100	100	100	100	100	105							25
100	100	100	100	100	110							26
100	100	100	100	105	105							27
100	100	100	100	100	110							28
100	100	100	100	105	110	110		100				29
100	100	100	100	100	110							30
100	100	100	100	110					120		120	31
30	31	30	27	29	25	2	1	2	2	..	3	Count
100	100	100	100	100	110	..	..	..	..	..	..	Median
100	100	100	100	105	110	..	..	..	..	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : January 1958

TABLE 10—*contd.*

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	110						G	G	G	G	G	G
2		100						G	G	100	100	100
3								G	100	100	100	100
4								G	100	100	100	100
5		110							100	100	100	100
6		105					G	105	100	100	100	100
7								105	100	100	100	100
8								105	100	100	100	100
9	115	110	105					105	100	100	100	100
10								G	100	100	100	100
11	100							105	100	100	100	100
12							120	G	100	100	100	100
13								G	100	100	100	100
14							G	100	100	100	100	100
15								G	100	100	100	100
16							G	105	G	100	100	100
17							G	G	G	100	100	100
18								G	100	100	100	100
19								110	100	100	100	100
20								110	100	100	100	100
21								G	100	G	G	G
22							115	100	100	100	100	100
23								G	100	100	100	100
24								105	100	100	100	100
25								100	100	100	100	100
26								140	G	100	100	100
27	C	C	C					105	100	100	C	100
28							G	G	100	100	100	100
29								G	100	100	100	100
30					C			100	100	100	100	100
31								100	100	100	100	100
Count	3	4	1	..	..	..	2	17	26	29	28	29
Median	..	..	..	..	..	..	..	105	100	100	100	100
Mean	..	..	..	..	..	..	..	105	100	100	100	100

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : January 1958

TABLE 10—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
130	100	100	100	100				120	110			1
100	100	100	100	105								2
100	100	100	100	105								3
100	100	100	100	105								4
100	100	100	100	100								5
100	100	100	100	105								6
100	100	100	G	105								7
100	100	100	120	120								8
100	100	C	C	105								9
100	100	100	110	110	120						110	10
100	100	100	G	100	105							11
100	100	100	100	100								12
100	100	100	100	105								13
100	100	100	100	105								14
100	100	100	G	120								15
100	100	100	100	110								16
100	100	100	110	110		110	115	110		110		17
100	100	100	100	110								18
100	100	100	100	110	110					115		19
100	100	100	100	100								20
G	100	100	120	105								21
100	100	100	100	105								22
100	100	100	100	105								23
100	100	100	100	100								24
100	100	100	100	105	105							25
100	100	100	100	105							C	26
100	100	100	100	105								27
100	100	100	100	105							110	28
100	100	100	100	105	105			100				29
100	100	100	100	100								30
100	100	100	100	110	150				120	120		31
30	31	30	27	31	6	1	1	3	2	3	2	Count
100	100	100	100	105	110	..	..	..	..	..	..	Median
100	100	100	100	105	115	..	..	..	..	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

Unit : —

Month : January 1958

TABLE II

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2.25	2.20	2.30	2.30	2.30	U2.40S	U2.35S	2.00H	2.35	2.35	2.20	2.20
2	2.30	U2.10F	2.15F	2.10F	U2.15F	U2.45S	2.70	2.60	2.40	2.35	2.15	2.05
3	2.40	2.55	2.55	2.70	2.70	2.75	2.65	2.65	2.50	2.35	2.25	2.10
4	U2.30F	F	F	F	2.50	2.80	2.90	2.80	2.55	2.30	2.10	2.00
5	F	F	F	F	2.90F	3.10	2.65	2.95	2.65	2.35	2.20	2.10
6	U2.40F	2.55	F	2.75	2.95	3.15	2.80	2.65	2.35	2.25	2.15	2.00
7	2.45	2.50	2.60	2.70	2.95	3.30	U2.60S	2.60	2.45	2.35	2.10	2.00
8	2.25	2.25	2.55	2.85	3.05	3.20	2.70	2.75	2.40	2.15	2.10	2.05
9	2.30	2.40	2.55	2.60	2.85	3.15	2.95	2.75	2.50	2.15	2.10	2.05
10	2.45F	2.70	2.70	2.85	3.05	3.10	U2.80S	2.95	2.70	2.30	2.00	1.95
11	U2.70S	2.70	2.75	2.70	2.80	3.20	2.85	U2.60S	2.40	J2.20S	2.00	2.00
12	F	F	F	F	F	F	U2.90F	2.60	2.50	2.20	2.00	2.00
13	2.65	U2.65S	2.60	2.75	3.00	U2.90S	U2.75S	2.90	2.70	2.40	2.15	2.00
14	J2.50R	2.40	U2.60S	U2.60S	U2.45FS	U2.40F	U2.40F	U2.60F	2.55	2.20	2.00	U1.95W
15	U2.50F	2.50	2.65	2.75	2.55	U2.30F	U2.40F	U2.90S	2.65	2.40	2.05	U1.95R
16	2.80	2.80	2.80	2.95	2.80	2.70	2.65	U2.40S	2.40	2.15	2.05	U1.95W
17	2.70	U2.60F	2.50	2.50	2.60	2.65	U2.70S	2.80	2.65	2.45	2.30	2.00
18	2.70	2.65	U2.80S	2.90	2.90	2.90	U2.90S	2.75	2.60	2.45	2.20	U1.95W
19	2.60	U2.70S	2.80	2.80	U3.10S	3.15	2.50	U2.70S	2.45	2.20	2.05	2.10
20	F	U2.55F	U2.70S	3.00	3.20	3.10	2.55	2.75	2.50	2.25	2.05	2.05
21	U2.25F	2.30	2.70	2.75	2.95	2.95	2.40	2.80	J2.60R	2.35	2.35	2.30
22	F	F	F	J2.80R	3.00V	3.15	FS	2.70	J2.25S	2.35	2.10	2.05
23	2.75	2.80	U2.85S	2.85	3.10	3.25	2.70	3.00	2.70	2.35	2.05	2.00
24	2.95	2.85	U2.75S	2.70	2.80	3.15	2.95	2.80	2.50	2.25	2.10	2.10
25	2.75	2.75	2.75	2.90	3.05	3.25	2.50	2.95	2.80	2.35	2.05	2.15
26	U2.65S	2.65	2.65	2.90	3.05	U3.15F	U2.80SH	2.95	2.75	2.60	2.15	2.15
27	G	G	G	F	3.05	G	2.85	2.70	G	2.40	2.15	2.15
28	U2.70F	3.00	2.90	U2.85S	3.05	U3.15S	3.15	3.10	2.85	U2.50R	2.15	2.30
29	2.80F	U2.90R	3.00	3.00	3.20	3.10	2.95	3.20	3.05	2.65	2.15	2.10
30	2.95	2.85	2.90	3.00	3.05	3.20	3.10	2.95	2.65	2.50	2.30	2.20
31	F	2.80	U2.70S	2.85	3.05	3.20	3.20	U3.00S	2.65	2.30	2.40	2.20
Count	25	26	25	27	30	29	30	31	30	31	31	31
Median	2.60	2.65	2.70	2.80	2.95	3.10	2.70	2.75	2.55	2.35	2.10	2.05
Mean	2.55	2.60	2.65	2.75	2.85	2.95	2.75	2.75	2.55	2.35	2.15	2.05

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

Unit : —

Month : January 1958

TABLE 11

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
2.10	2.05	2.00	W	1.90	2.00	2.00	2.00	2.05F	2.15	2.20	2.30	1
1.95	UI.90W	1.90	1.95	1.95	1.95	2.00	2.05	2.20	2.40	2.40	2.30	2
2.05	1.95	1.90	1.90	1.90	1.95	2.05	2.05	1.95F	U2.00F	2.10	2.20	3
1.95	2.00	2.00	1.95	1.95	2.00	2.05	UI.95W	UI.90W	UI.90F	F	F	4
2.05	2.00	2.00	2.00	2.00	1.95	1.95	1.90	1.95F	U2.10R	2.10	2.20	5
1.95	1.90	1.95	1.90	1.95	2.00	2.10	UI.95W	2.05	2.10	2.25	2.40	6
2.00	2.00	2.00	2.05	C	U2.00C	1.90	U2.05F	F	F	F	F	7
1.95	1.95	1.95	2.00	2.05	2.05	2.00	F	F	F	F	2.25F	8
2.00	2.05	2.10	C	2.10	2.05	UI.95R	F	F	U2.00F	F	F	9
2.00	2.00	2.00	2.05	2.10	2.10	2.05	U2.05R	2.05	U2.30R	2.50	U2.55R	10
2.00	U2.00W	2.05	2.15	2.20	2.10	J2.05R	U2.00F	F	F	U2.10F	F	11
2.05	2.00	2.00	2.00	2.00	UI.95S	1.95	U2.00S	U2.05R	J2.35R	2.50	U2.40S	12
2.00	UI.95W	U2.00W	U2.00W	W	U2.00S	2.10	F	F	U2.35F	2.40	R	13
UI.95W	W	UI.95W	UI.95W	2.00	UI.95S	2.00	U2.00S	F	F	F	U2.50F	14
1.95	1.95	2.00	2.05	U2.15R	2.15	2.15	U2.10S	R	R	U2.55S	2.65	15
UI.95W	1.95	UI.85W	1.90	1.95	U2.00W	2.05	2.00	F	F	2.40	2.60	16
1.90	1.90	UI.95W	1.95	2.00	2.00	2.10	2.15	2.30	2.35	2.70	2.80	17
1.95	1.85	1.90	1.95	2.00	2.00	2.00	2.00	U2.20F	2.35	U2.50S	U2.60S	18
2.05	2.05	2.10	2.10	2.10	2.05	UI.85WH	UI.95F	F	F	F	F	19
2.00	2.05	2.05	2.05	2.05	1.95	U2.00S	1.95	F	F	F	F	20
2.35	2.35	C	C	2.25	2.25	2.15H	1.95H	F	F	F	F	21
2.05	2.00	2.05	2.10	2.10	U2.05S	2.00	F	F	F	2.55	2.60	22
2.10	2.15	2.20	C	C	2.25	2.20	R	2.25	R	2.60	2.70	23
2.10	2.10	2.05	2.10	2.10	U2.05S	2.00	2.00	2.35F	2.55	2.60	U2.80S	24
2.05	2.00	2.00	2.05	2.10	2.10	2.10	2.00	F	F	U2.50F	2.55	25
2.00	2.10	2.10	2.05	1.95	2.00	2.10	2.05	F	F	2.50	F	26
2.10	2.10	2.10	2.10	2.15	2.15	U2.05S	1.90	F	F	F	2.75	27
2.20	2.10	2.10	2.15	U2.25	2.15	2.00	U2.05F	F	F	F	FS	28
2.10	2.10	2.10	U2.10S	U2.05S	2.05R	U2.25S	U2.25S	U2.40S	U2.60S	U2.70S	U2.80S	29
2.15	2.10	2.15	2.15	2.15	U2.10	2.20	2.20	F	F	F	F	30
2.25	2.15	2.20	2.20	2.25	2.25	U2.20S	U2.10R	F	F	F	U2.70F	31
31	31	30	28	29	31	31	26	13	14	19	20	Count
2.00	2.00	2.00	2.05	2.05	2.05	2.05	2.00	2.05	2.30	2.50	2.60	Median
2.05	2.00	2.00	2.05	2.05	2.05	2.05	2.00	2.15	2.25	2.45	2.55	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

TABLE 11—*contd.*

Latitude : 10°2' N

Unit : —

Ionospheric Data

Longitude : 77°5' E

Month : January 1958

75°0'E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.20	2.25	2.25	2.25	2.40	U2.40S	2.15H	2.35	2.30	2.25	2.20	2.15
2	2.25	2.10	2.15F	U2.05F	2.20	J2.50S	U2.70S	2.50	2.35	2.30	2.10	2.05
3	2.40	2.50	2.60	2.70	2.75	2.75	U2.70S	2.60	2.45	2.30	2.15	2.05
4	F	F	F	F	U2.60F	2.95	2.80	2.70	2.40	2.15	2.05	2.00
5	U2.40F	F	U2.55F	F	3.00	3.10	2.90	2.85	2.50	2.25	2.20	2.10
6	2.40	2.60	2.65	2.85	3.10	3.10	2.70	2.60	2.35	2.20	2.10	1.95
7	2.55	2.55	2.60	2.80	3.10	3.10	2.75	2.55	2.40	2.15	2.10	2.00
8	2.20	2.50	2.65	2.95	3.15	3.25	2.80	2.55	2.25	2.10	2.05	2.05
9	2.45	2.45	2.55	2.75	3.05	3.20	2.90	2.65	2.30	2.15	2.05	2.00
10	2.60	2.75	2.75	2.90	3.00	3.10	2.85	2.85	2.50	2.10	U1.90W	2.00
11	2.75	J2.80R	2.70	2.75	U2.95S	3.20	2.80	2.45	U2.35S	2.10	1.95	U2.00W
12	F	F	F	F	F	U3.00F	U2.80F	2.60	2.40	2.00	2.00	2.00
13	J2.65R	2.65	2.70	2.85	2.95	3.00	U2.80S	2.80	2.55	2.30	2.05	U2.00W
14	2.40	U2.60S	2.70	2.50	U2.40F	U2.35F	FS	U2.55F	2.40	2.10	1.95	U1.90W
15	U2.50F	2.60	2.75	2.70	2.30	U2.40F	U2.80S	2.75	2.50	2.25	U2.00R	1.95
16	2.80	2.80	2.90	2.90	2.75	2.75	2.55	2.40	C	2.00	U2.00W	U1.95W
17	2.80	2.70	U2.50S	2.55	2.65	2.80	2.80	2.60	2.40	2.20	2.00	U1.85W
18	2.70	U2.70S	2.75	3.00	2.80	3.00	2.85	2.65	2.50	2.35	2.05	1.95
19	U2.70S	U2.70S	2.80	3.00	3.20	3.10	2.75	2.50	2.40	2.10	2.05	2.10
20	F	2.60	2.85	3.00	3.10	3.10	U2.70S	2.70	2.40	2.10	2.10	2.10
21	U2.35F	2.55	2.65	2.90	3.00	2.90	2.75	2.75	U2.45R	2.30	2.35	2.30
22	F	F	F	2.85	3.15	3.20F	2.80	2.55	2.45	2.30	2.10	2.00
23	2.75	2.85	2.80	2.95	3.15	3.35	3.00	2.85	J2.50R	2.20	2.10	2.05
24	2.90	2.85	2.75	2.70	2.95	3.30	2.85	2.70	2.35	2.15	2.15	2.10
25	U2.70S	2.70	2.80	3.00	3.25	3.25	U3.05S	2.90	2.60	J2.15R	2.10	2.10
26	U2.65S	2.65	2.80	3.00	3.10	J3.20S	2.95	2.90	J2.60R	2.40	2.00	2.05
27	C	C	C	3.05F	J3.05F	3.15	2.80	2.55	2.45	2.25	C	2.10
28	2.80	3.00	2.90	2.90	J3.10S	J3.20S	3.10	2.95	2.70	2.25	2.20	2.25
29	U2.80F	2.95	3.00	3.10	3.30	3.40	3.20	3.10	2.85	J2.35R	2.10	2.15
30	2.90	2.90	3.00	3.00	C	3.30	2.90	2.70	2.50	2.40	2.20	2.20
31	U2.70F	U2.80S	2.75	2.85	3.00	3.20	3.00	2.85	2.45	2.45	2.25	2.20
Count	26	26	27	28	29	31	30	31	30	31	30	31
Median	2.65	2.70	2.75	2.90	3.00	3.10	2.80	2.70	2.45	2.25	2.10	2.05
Mean	2.60	2.65	2.70	2.80	2.90	3.00	2.80	2.70	2.45	2.20	2.10	2.05

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

Unit : Mc

Month : January 1958

TABLE 11—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2.10	2.00	1.90	E1.90W	1.95S	2.00	2.00	2.00	2.10	2.15	2.25	2.30	1
U1.90W	1.90	1.90	1.95	1.95	2.00	2.00	2.10	2.35	2.45	2.40	2.40	2
2.00	1.95	1.90	1.90	1.95	2.00	2.05	2.00F	2.00	2.05F	2.15V	U2.25F	3
2.00	2.00	2.00	1.95	1.95	2.05	2.00	U1.90W	U1.90F	U1.90F	F	F	4
2.05	2.05	2.00	U1.95R	U2.00R	2.00	1.90	2.00F	1.85F	U2.05R	J2.10S	2.35	5
1.95	1.90	1.95	1.95	2.00	2.05	2.05	1.95	2.10	2.20	2.35	2.45	6
2.00	2.00	2.05	2.10	2.05	2.00	2.00	U1.90W	F	F	2.15	2.15F	7
1.95	1.95	2.00	2.05	2.10	2.00	1.95	F	F	F	F	2.25	8
2.00	2.05	C	C	2.05	2.00	W	F	2.05	F	U2.25F	U2.40F	9
1.95	2.00	2.00	2.05	2.10	2.10	2.00	2.00	2.10	2.45	2.55	U2.65S	10
U1.95W	2.00	2.10	2.20	2.20	2.05	U2.00S	F	F	U2.00F	U2.15F	U2.20F	11
2.05	U1.95W	2.05	2.00	U2.00S	1.95	2.00	2.00	2.20	2.40	U2.50S	U2.50R	12
U2.00W	U1.95W	U2.00W	W	U1.95W	U2.00S	2.00	F	F	U2.35F	J2.40R	J2.60R	13
U2.00W	W	U1.95W	2.00	1.95	2.00	2.00	F	F	F	U2.50F	U2.50F	14
2.00	1.95	2.00	2.10	2.15	2.20	J2.15R	2.05	U2.20R	U2.45S	U2.60S	22.70	15
1.95	U1.90W	U1.90W	1.95	1.95	U2.00W	2.05	2.00	U2.15F	F	2.50	2.65	16
1.90	1.95	1.95	1.95	2.00	2.10	2.10	2.30	2.30	2.60	2.70	2.75	17
1.95	1.85	1.90	1.95	2.00	U1.95S	2.00	2.05	2.30	2.40	U2.55S	U2.60S	18
2.10	2.05	2.10	2.10	2.10	U2.00S	U1.80WH	2.00	U2.05F	F	2.90	U2.60R	19
2.00	2.05	2.05	2.10	2.00	U1.95W	2.00	F	U1.95F	F	F	J2.50F	20
2.35	2.30	2.20	2.20	2.20	2.20	2.00H	F	F	F	F	F	21
2.00	2.05	2.10	2.15	2.10	2.00	2.00	F	U2.10F	U2.45F	U2.55S	2.70	22
J2.10R	2.15	2.20	2.25	2.25	2.25	2.15	R	R	2.50	2.55	2.80	23
2.05	2.05	2.05	2.10	U2.10S	2.05	1.95	2.15	2.50	2.60	2.65	2.75	24
2.00	2.00	2.00	2.10	2.10	2.10	J2.05S	F	F	F	2.60	U2.75S	25
2.05	2.10	2.05	2.00	1.95	2.10	U2.10S	2.05F	F	F	F	C	26
2.10	2.10	2.10	2.20	2.20	U2.15S	S	F	F	F	F	2.70	27
2.15	2.10	2.15	2.20	2.20	2.10	2.00	F	F	F	U2.85F	U2.70S	28
2.10	2.10	2.10	2.10	2.05	2.10	2.25	U2.30S	U2.50S	U2.70S	U2.75S	2.80	29
2.10	2.10	2.15	2.15	2.10	2.15	2.20	2.20	2.25	2.30	F	F	30
2.20	2.20	2.20	2.20	2.25	2.25	U2.10S	U2.00R	F	U2.20F	U2.55S	U2.90FS	31
31	31	30	30	31	31	30	19	19	19	24	27	Count
2.00	2.00	2.00	2.10	2.05	2.05	2.00	2.00	2.10	2.40	2.50	2.60	Median
2.05	2.00	2.05	2.05	2.05	2.05	2.05	2.05	2.15	2.30	2.45	2.55	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : February 1958

TABLE 12

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	10.8 _F	10.3	8.6	8.2	8.2	7.3	5.6	9.0 _H	10.4	10.3	10.5	10.7
2	U7.6 _F	U7.4 _F	U7.4 _S	F	6.6	6.7	U6.7 _F	F	U12.0 _F	12.6	C	C
3	F	U9.9 _F	F	F	4.9	U4.0 _F	U4.9 _F	8.6	10.9	C	12.5	13.1
4	F	F	F	7.9 _F	7.5	5.6	F	U9.4 _S	11.3	11.9	12.2	12.8
5	F	F	F	8.9	U9.5 _F	9.7	9.2	11.0	12.4	12.3	12.9	13.1
6	13.0	10.6	7.0	6.4	6.6	U6.1 _S	6.6	10.1	11.4	11.9	11.9	11.8
7	U11.8 _S	9.8	U7.1 _S	5.1	4.5	3.5	4.8	8.5	10.7	11.4	11.1	11.6
8	F	U11.8 _F	8.7	7.3	6.7	6.1	5.3	9.4	10.8	10.0	10.0	10.0
9	C	11.4	9.3	U7.3 _S	7.4	6.6	5.6	9.8	11.8	12.1	11.9	12.1
10	U13.2 _F	U11.2 _F	F	7.8	7.6	F	U6.0 _F	U9.7 _S	U11.8 _S	11.1	10.0	10.5
11	U11.4 _F	12.3	11.8	11.5	10.8	10.4	10.3	11.0	11.8	16.4	11.9	9.7
12	5.6	4.8	4.7	F	F	4.1 _F	F	10.6	13.5	C	C	C
13	13.6	14.2	14.4	12.3	11.0	8.4	4.8	19.5 _S	12.2	J12.0 _R	11.3	11.4
14	J11.9 _S	11.2	U9.2 _S	7.8	U7.3 _S	U7.3 _S	6.8	10.2	12.7	14.6	15.2	14.9
15	11.0	11.4	U9.6 _S	U9.2 _S	8.4 _F	U7.2 _F	U6.5 _F	F	12.0	13.4	13.6	C
16	U9.4 _F	U9.4 _F	U8.6 _F	7.5	U6.6 _F	6.2	5.4	FS	U11.6 _S	11.8	11.7	11.7
17	F	11.0	J10.2 _R	8.1	6.8	5.8	5.4	U9.2 _S	10.8	11.4	11.8	13.0
18	U11.4 _S	U11.2 _S	10.4	9.1	9.0	8.5	6.9	10.5	11.4	12.6	13.4	14.3
19	11.4	11.0	10.0	9.1	8.0	U7.4 _S	6.6	U9.4 _S _H	10.6	11.8	12.3	12.6
20	12.2	10.4	U9.4 _S	7.8	U6.2 _S	4.3	4.6	U9.6 _S	12.2	J13.2 _R	12.8	12.5
21	11.4	10.7	8.4	U7.3 _S	U7.2 _S	7.8	U9.6 _S	12.2	13.4	13.2	12.6	12.4
22	U12.0 _S	U10.3 _S	U9.2 _S	8.6	7.8	8.8	8.7	11.0	13.2	14.1	12.6	12.0
23	12.1	10.2	U9.3 _S	9.1	8.7	6.8	U6.7 _S	U10.2 _S	C	C	C	C
24	11.4	10.9	9.9	8.5	7.5	7.0	6.4	U10.2 _S	12.3	12.6	11.7	10.8
25	11.8	11.1	U9.6 _S	8.3	7.0	5.5	5.0	9.8	12.2	12.5	11.5	10.9
26	F	F	9.5	8.6	7.8	F	5.6	U9.7 _S	12.2	13.7	12.7	12.1
27	F	F	F	9.0	F	U7.2 _S	U6.7 _S	9.9	12.2	12.5	11.7	11.4
28	F	F	F	10.0	U9.9 _S	8.4	U6.8 _S	U9.5 _F	11.3	11.6	12.0	U12.0 _R
Count	19	23	22	25	26	26	26	25	27	25	25	24
Median	11.4	10.9	9.3	8.3	7.5	6.9	6.4	9.8	11.8	12.3	11.9	12.0
Mean	11.2	10.5	9.2	8.4	7.7	6.8	6.4	9.9	11.8	12.4	12.1	12.0

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : February 1958

TABLE 12

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11.0 C	11.4 C	11.7 C	12.1 C	12.2 C	U11.8s 12.7	U10.0R U12.2R	F U10.8F	F F	F U9.6F	F F	C F	1
13.3	13.4	13.8	13.5	12.5	11.0	9.3	U7.9F	U8.2F	U8.7F	F	F	2
13.6	14.8	15.3	14.9	14.5	U13.8R	U13.3R	F	F	F	F	F	3
13.8	13.9	14.0	13.8	C	U11.0W	9.5	8.9	10.0	10.4	11.0	U11.5F U11.8R	4
12.6	13.8	14.0	13.8	13.2	12.8	12.3	11.5	U11.3R	12.6	13.8	13.3	5
12.1	12.7	13.7	U14.2S	14.0	13.3	12.9	U11.2R	13.2	U12.3F	U11.7F	F	6
10.4	11.4	12.3	12.2	13.1	13.4	12.4	11.3F	10.7	10.8	U11.2R	11.4	7
12.6	13.6	13.8	14.2	14.0	13.8	12.9	U11.6F	F	F	F	U12.8F	8
10.4	10.4	10.7	11.0	11.5	11.5	11.0	U9.2W	F	F	F	U11.3F	9
7.4 C	8.8 C	9.5 9.4	U8.4W 10.0	10.8 10.2	C 10.5	10.9 10.4	11.2 9.0	12.6 9.4	10.7 10.3	U9.1R 11.6	C 13.6	10
11.2	11.8	12.0	11.6	11.3	9.9	8.8	8.0	8.4	8.7	9.2	10.8	11
14.3	12.9	12.0	11.4	11.4	11.4	11.2	10.1	9.4	10.4	9.8	10.4	12
12.8	12.8	12.6	12.4	12.0	11.5	10.8	9.2	8.5F	F	F	F	13
12.3	12.9	13.7	14.2	14.4	13.9	J12.3R	U9.5W	F	U8.7F	F	F	14
14.2	14.9	U15.2S	U15.2S	U15.1S	14.6H	13.5H	11.0H	U11.4FH	U13.0F	13.2	13.0	15
14.6	15.3	15.6	15.0	C	U12.8RH	10.4	C	U8.4F	9.0	9.2	U9.4S	16
13.1	14.6	15.4	U15.2S	U15.1S	14.3H	R	U11.4RH	R	13.4H	U14.0R	13.6	17
13.0	13.8	14.3	14.8	14.8	14.7	U14.2R	12.7	U12.6F	R	F	12.4	18
13.0	14.2	14.5	14.9	14.3H	13.8H	U11.6SH	U9.5R	10.5	11.3	U11.8S	12.7	19
12.4	13.0	13.6	13.8	13.7	U13.0R	12.3	10.6	9.7F	11.4	13.5	13.6	20
C	C	C	12.6	12.9	12.6	U11.8S	10.9	10.6	F	U11.8S	11.8	21
10.8	11.0	11.3	11.8	U11.8R	U11.8S	11.4	10.7	10.7	U11.8R	U13.0R	U12.7R	22
11.2	11.6	11.9	12.5	12.8H	12.8	U11.9S	10.6	F	F	F	F	23
11.8	12.1	12.4	13.0	13.2	12.9	12.7	10.9	F	F	F	U11.0F	24
11.2	11.4	11.8	12.2	12.2	U11.9S	U11.0S	8.4	F	U8.3F	U8.6F	F	25
12.4	12.8	13.7	14.5	14.3	13.5	12.9	11.4	F	F	F	F	26
												27
												28
25	25	26	27	25	27	27	25	17	18	16	18	Count
12.4	12.9	13.6	13.5	13.1	12.8	11.8	10.7	10.5	10.6	11.6	12.1	Median
12.2	12.7	13.0	13.1	13.0	12.6	11.6	10.3	10.3	10.6	11.4	12.1	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : February 1958

TABLE 12—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	10.0F	9.3	8.4	8.2	8.1	6.0	7.4	9.5	10.6	10.4	10.8	10.9
2	F	7.6F	U7.2F	6.4F	6.6	6.3	F	U11.0F	12.4	C	C	C
3	U9.6F	9.9	9.2	F	U4.2F	F	6.8	9.7	11.5	12.2	12.8	12.9
4	F	F	F	7.9F	6.6	F	F	10.4	11.8	12.0	12.5	12.9
5	F	U8.7F	U8.6F	9.2F	9.8	9.4	10.4	11.7	12.5	12.5	13.4	13.4
6	12.0	8.6	6.4	6.9	6.4	5.8	8.6	10.8	11.8	11.8	11.8	12.2
7	10.8	8.6	6.1	4.9	3.9	3.5	7.0	10.0	11.1	11.4	11.3	11.9
8	13.0F	10.4	7.4	7.4	6.3	5.5	7.6	10.3	10.4	10.0	9.8	10.1
9	11.4	10.5	8.0	U7.4s	7.0	5.4	7.6	11.2	12.2	12.0	11.8	12.4
10	12.4	F	8.5F	7.4	7.7	F	7.9	10.9	11.6	10.6	10.2	10.4
11	11.4F	12.1	11.4	11.4	10.5	10.7	10.5	11.0	13.5	14.4	U12.2W	8.2
12	5.2	4.6	4.8	F	4.4F	4.2	8.4	12.6	13.6	C	C	C
13	13.4	14.9	13.7	11.6	10.2	5.9	7.5	11.1	12.4	C	11.4	11.4
14	J12.0s	10.4	8.6	7.4	U7.1s	7.0	8.4	11.5	13.6	C	15.2	14.5
15	11.4	10.7	9.2	8.9	7.5F	6.4	U8.3F	10.8	12.7	13.7	C	13.2
16	9.2	U8.8F	8.0	F	U6.6F	U5.2F	U7.8F	10.8	U11.8s	11.7	11.6	12.0
17	11.4	10.6	U9.3s	7.5	J6.4R	5.2	U7.4s	10.2	11.4	11.4	12.4	13.8
18	11.3	10.6	U9.8s	8.8	9.0	U7.4s	8.8	11.4	J12.0s	13.2	13.9	14.3
19	11.5	10.4	U9.4s	8.5	7.8	6.9	8.3	10.2	11.4	12.0	12.6	12.8
20	11.0	U9.5s	8.7	U7.2s	5.6	3.6	U7.4s	11.0	13.0	13.0	12.4	12.8
21	10.7	9.8	U7.6s	U7.2s	7.5	8.6	10.8	13.0	13.6	12.9	12.4	12.7
22	11.1	U9.9s	U9.1s	8.3	8.0	8.9	U9.6s	12.3	13.8	13.8	12.2	12.2
23	11.1	U9.5s	8.8	9.2	7.9	6.4	8.5	10.8	C	C	C	C
24	11.2	C	9.4	7.7	7.3	6.1	8.4	11.6	12.5	12.2	11.1	10.7
25	11.9	10.6	9.0	7.8	6.5	4.2	U7.5s	11.0	12.7	12.1	11.0	11.0
26	F	U9.4F	8.8	8.3	7.1	5.1	7.9	11.3	13.1	13.4	12.4	11.9
27	F	F	F	U9.2F	F	J6.2s	8.3	11.2	12.8	12.0	11.5	11.3
28	F	F	U9.6s	F	U9.5s	6.8	8.4	10.7	11.5	11.8	12.0	12.2
Count	22	23	26	24	27	25	26	28	27	23	24	25
Median	11.4	9.9	8.8	7.8	7.1	6.1	8.3	11.0	12.4	12.0	12.1	12.2
Mean	11.0	9.8	8.6	8.1	7.2	6.3	8.3	11.0	12.3	12.2	12.0	12.1

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : February 1958

TABLE 12—contd.

Ionospheric Data

75.0°E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11.3 C	11.6 C	12.0 C	12.1 C	12.4 12.9	11.3H U12.6R	8.6F U12.0S	F U10.5F	F F	F F	F F	8.0 F	1
13.2	13.4	13.8	13.0	11.7	10.0	8.7	U7.6F	U8.4F	F	F	F	2
14.1	15.2	14.9	14.8	14.2	U13.4R	U12.6R	F	F	F	U11.5F	U11.0F	3
14.1	14.0	13.8	13.3	12.0	10.1	9.5	9.2	10.5	10.6	U11.2R	12.9	4
13.2	14.0	13.9	13.5	13.0	12.8	U12.0S	U11.2F	U11.8S	13.4	13.9	12.7	5
12.2	13.0	13.9	U14.3R	13.7	12.9	12.8	U11.6R	U12.0F	U12.0F	F	F	6
10.8	11.8	12.2	12.5	13.1	U13.3R	U11.8S	11.1	10.8	10.6	11.3	11.9	7
12.8	13.6	14.1	14.1	14.0	13.1	12.7	F	F	F	F	U13.0F	8
10.3	10.5	10.8	11.2	U11.6S	U11.5S	U10.0S	8.7F	U9.2F	U10.8F	F	11.6F	9
8.1 C	9.4	U8.1W	8.9	10.4	10.0	10.3	12.3	11.8	U9.7S	8.5	6.5	10
11.6	9.4	9.7	10.0	10.4	10.4	10.0	9.2	9.6	11.0	12.7	13.8	11
13.7	12.6	11.6	11.6	10.7	9.3	8.4	8.2	8.5	9.0	9.9	11.4	12
13.0	12.8	12.5	12.2	11.3	11.5	10.9	U9.5S	10.0	U9.9S	10.4	10.8	13
				12.0	11.2	10.0	8.8F	F	F	F	F	14
12.6	13.3	14.0	14.3	14.3	13.0	J11.2R	U8.8F	F	F	F	U11.8F	15
14.6	15.1	U15.2S	U15.2S	14.8	14.2H	12.6H	U11.2FH	U12.1FH	13.2	13.2	12.5	16
14.8	15.7	15.2	14.8	C	U11.8RH	U9.0S	F	8.8	9.2	U9.4S	10.2	17
13.8	14.8	15.4	U15.2S	U14.5RH	J13.6RH	11.4H	U11.5FH	U12.4FH	U13.2RH	13.8	13.0	18
13.4	U14.2R	14.6	14.8	14.8	14.6	13.4	U12.4R	U13.0F	F	12.8	12.1	19
13.6	14.5	14.7	14.8	14.2H	13.1H	U11.7H	9.5	11.1	U11.5RS	12.4	12.5	20
12.8	13.4	13.8	13.8	13.6	12.8	11.5	10.3	U10.6F	12.5	13.9	13.1	21
C	C	C	12.6	U12.8R	U11.7S	11.6	10.8	10.9F	U11.8S	12.0	11.5	22
11.0	11.1	11.6	11.7	U11.9S	U11.3S	11.0	U10.4R	11.0	13.0	U12.9R	12.2	23
11.4	11.7	12.2	12.8	12.9	12.5	U11.9S	F	F	F	U9.4F	F	24
11.9	12.3	12.6	13.0	13.0	13.0	U11.8S	U9.6F	F	F	F	F	25
11.2	11.6	11.9	J12.1S	12.2	U11.6S	U9.8S	U7.6F	F	8.7	F	F	26
12.6	13.2	14.2	14.3	U13.8R	13.5	R	F	F	F	F	F	27
												28
225	26	26	27	27	28	27	22	18	17	17	20	Count
12.8	13.1	13.8	13.0	12.9	12.6	11.4	10.0	10.8	11.0	12.0	12.0	Median
12.5	12.9	13.0	13.0	12.8	12.1	11.0	10.0	10.7	11.2	11.7	11.6	Mean

Sweep 1°0 Mc. to 25.0 Mc. in 27 seconds.

150

Characteristic : foF₁

Unit : Mc

Month : February 1958

TABLE 13
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1									L	L	L	L
2									L	L	L	L
3								L	L	L	L	L
4									L	L	L	L
5									L	L	L	L
6								L	L	L	L	L
7									L	L	L	L
8									L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11									L	L	L	L
12									L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
Count							
Median							
Mean							

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic : foF1
 Unit : Mc
 Month : February 1958

TABLE 13
 Ionospheric Data
 75.0°E Mean Time

Latitude : 10.2° N
 Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L C L L L	L C L L L	L C L L L	L C L L L	L C C								1
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								2
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								3
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								4
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								5
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								6
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								7
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								8
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								9
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								10
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								11
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								12
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								13
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								14
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								15
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								16
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								17
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								18
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								19
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								20
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								21
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								22
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								23
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								24
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								25
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								26
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								27
L L L L L	L L L L L	L L L L L	L L L L L	L L L L								28
..							
..	..	I	..	..	..							Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : February 1958

TABLE 13—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5												
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L _H	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
Count							
Median							
Mean							

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : February 1958

TABLE 13—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L C L L L	L C L L L	L C L L L	L C L L L	L								1
												2
												3
												4
												5
L L L L L	A L L L L	L L L L L	L L L L L	L								6
												7
												8
												9
												10
L C L L L	L L L L L	L L L L L	L L L L L	L L L L L								11
												12
												13
												14
												15
L _H L L L L L	L L L L L	L L L L L	L L L L L	L L C L L								16
												17
												18
												19
												20
L L C L L	L L C L L	L L C L L	L L L L L	L L L L L								21
												22
												23
												24
												25
L L L	L L L	L _H L L L	L _H L L L	L L L								26
												27
												28
..	..	..	..	..								Count
..	..	..	..	..								Median
..	..	..	..	..								Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc

Month : February 1958

TABLE 14

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1									A	A	A	A
2								2.7	A	A	A	A
3								A	A	A	A	A
4								A	A	A	A	A
5								2.3	A	A	A	A
6								A	A	A	A	A
7								A	A	A	A	A
8								A	A	A	A	A
9								2.6	A	A	A	A
10								A	A	A	A	A
11								2.7	A	3.7	A	A
12								U _{3.0M}	B	O	A	A
13								A	A	A	A	A
14								2.7H	3.3	3.6	A	A
15								2.5	A	A	A	A
16								2.6H	A	A	A	A
17								A	A	A	A	A
18								A	A	A	A	A
19								A	A	A	A	A
20								2.6F	A	A	A	A
21								2.7	A	A	A	A
22								A	A	U _{3.7A}	A	A
23								A	A	O	A	A
24								2.5	A	A	A	A
25								A	A	A	A	A
26								2.7H	A	A	A	A
27								A	A	A	A	A
28								A	A	A	A	A
Count								12	1	3	..	..
Median								2.6	..	..	..	..
Mean								2.6	..	..	..	..

Sweep from 0 Mc. to 25 Mc. in 27 seconds.

Characteristic : foE
Unit : Mc
Month : February 1958

TABLE 14
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A Q A A 4.3	A C 4.2 A 4.3	A Q A 4.1 A	3.6 C A A A	A C A A C	A A							1
A A A B A	A 4.2 A B A	4.0 U4.1R A U4.1R A	3.7 4.1 3.8 3.9 3.8	A A A 3.4 A	A A A A							2
A C A A A	B C A A A	A A A A A	U3.6R A A A A	B U3.3A A A A A	C A A A A							3
A 4.2 A A A	A 4.2 4.1 4.1 A	A 4.1 4.0 4.0 4.0	A 3.6 A A 3.6	A A C A A	A A A A A							4
A 4.0A C A A	3.9 A C A A	4.0 A C A A	A A A A A	A A A A A	A A U2.8A A A							5
A A A	A A A	A A A	A U3.7R A	A A A	A A A							6
3	7	9	10	2	1							7
..	4.2	4.0	3.7	..	..							8
..	4.1	4.0	3.7	..	..							9
												10
												11
												12
												13
												14
												15
												16
												17
												18
												19
												20
												21
												22
												23
												24
												25
												26
												27
												28
												Count
												Median
												Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE
Unit : Mc
Month : February 1958

TABLE 14—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								A	A	A	A	A
2								3.0	A	C	C	4.2
3								A	A	A	A	A
4								A	A	A	A	A
5								A	A	A	A	A
6								A	A	A	A	A
7								A	A	A	B	A
8								A	A	A	A	A
9								A	A	A	A	A
10								A	A	A	A	A
11							2.6	A	3.7	A	A	A
12								R	B	C	C	A
13								A	A	C	A	A
14							2.1	R	3.6	C	A	A
15								A	A	A	C	A
16								A	A	A	A	4.1
17								A	A	A	A	A
18								A	A	A	A	A
19							2.1	A	A	A	A	A
20								A	A	A	A	A
21								A	A	A	A	A
22								A	A	A	A	A
23								A	C	A	C	A
24								A	A	A	B	A
25								A	A	A	A	A
26							U2.0R	A	A	A	A	B
27							U2.1R	A	A	A	A	A
28							R	A	A	A	A	A
Count							5	1	2	..	..	2
Median							2.1	..	..	..	..	..
Mean							2.2	..	..	..	..	..

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc

Month : February 1958

TABLE 14—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°26' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	A								1
C	C	C	C	A								2
A	A	A	A	A								3
A	A	A	A	A								4
4.3	4.2	A	A	A								5
4.3	A	3.9	3.5	A	A							6
A	A	U4.1R	3.6	A								7
A	4.0	3.8	B	A								8
B	4.2	4.0	U3.7R	F								9
A	A	A	A	A								10
A	B	R	B	B	A							11
C	A	A	A	A								12
A	A	A	A	A								13
A	A	A	A	A								14
A	A	A	A	A								15
A	A	A	A	A								16
4.2	4.1	A	3.3	A								17
4.1	4.1	3.7	A	C								18
4.2	4.1	3.8	A	A								19
A	A	A	U3.4F	A								20
U4.0A	A	U3.8A	U3.5A	A								21
A	A	A	3.2	A								22
C	C	C	U3.5R	A								23
A	A	A	A	A								24
A	A	A	A	A								25
A	A	A	A	A								26
A	A	A	A	A								27
A	A	U3.7R	U2.5R	A	A							28
6	6	8	9	..	..							Count
4.2	4.1	3.8	3.5	..	..							Median
4.2	4.1	3.8	3.4	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : February 1958

TABLE 15
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								8.0	9.6	9.0	11.0	11.8
2								G	8.4	10.6	C	C
3								8.8	10.4	C	12.0	11.4
4								U7.06	10.0	10.6	11.8	11.8
5							4.0	G	9.8	10.6	11.4	11.4
6								7.8	10.4	10.0	12.0	11.6
7								8.6	10.0	10.8	12.0	12.0
8								8.0	10.0	10.0	10.6	11.0
9							3.2	G	8.8	10.0	12.0	11.6
10								U7.03	10.0	9.8	11.6	11.8
11					2.8			G	9.0	G	11.6	10.4
12							2.6	G	7.6	C	C	C
13								6.6	8.8	10.0	11.0	12.0
14								G	G	G	11.4	11.8
15								G	7.4	7.8	11.0	C
16								G	10.2	11.4	12.4	12.4
17							4.8	8.4	10.4	11.0	12.0	10.0
18								8.4	9.8	10.0	12.4	12.0
19								9.0	10.8	10.6	12.4	12.8
20								6.8	10.2	11.0	12.2	12.2
21								G	9.0	10.8	11.2	11.6
22									7.6	10.6	12.0	12.0
23								7.0	C	C	C	C
24								G	8.4	9.4	12.0	11.6
25								7.0	9.0	11.0	11.5	12.0
26								G	U10.28	10.8	12.6	12.0
27								U7.08	12.0	11.1	12.2	12.2
28								6.7	11.2	12.0	12.2	12.1
Count	I	..	4	27	27	25	25	2.4
Median	7.0	9.8	10.6	12.0	11.8
Mean	7.6	9.6	10.4	11.8	11.7

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs
Unit : Mc
Month : February 1958

TABLE 15
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11.2 C	11.4 C	10.8 C	10.0 C	8.0 C	6.8							1
9.6	8.8	9.2	10.6	8.4	7.8							2
10.4 G	9.0 G	10.0	10.0	8.0 C						4.2		3
												4
12.0	9.6	G	G	8.1	8.0			5.0				5
11.6	10.0	G	9.4	8.0	8.0							6
11.4	11.8	10.6	G	7.0	6.8			4.0				7
11.0	10.0	G	G	7.0	7.0							8
11.4	12.4	12.0	10.8	10.0	8.0							9
												10
8.0 C	8.4 C	8.6 9.0	G 10.0	G 8.2	C 8.0	3.6						11
11.6	10.8	11.0	11.0	7.8	6.8							12
11.8	11.8	12.0	11.4	8.2	7.0							13
11.6	11.8	12.0	11.0	9.0	7.8							14
												15
12.2 G	11.6 G	9.8 G	7.8 4.1	8.6 5.2	8.1 8.4							16
7.8	G	G	10.0	C	7.6		C					17
10.4	G	G	4.2	8.4	6.8							18
12.6	10.8	G	7.8	8.2	7.8					5.8	3.0	19
												20
12.0	G	G	10.6	8.2	7.2							21
11.6	11.2	11.0	10.4	8.2	8.0							22
C	C	C	10.0	8.6	7.0							23
11.5	11.6	10.8	11.6	8.4	7.0							24
12.2	12.0	11.4	10.6	8.4	7.0							25
												26
12.6	12.0	10.8	9.1	8.6	8.4							27
12.1	11.9	12.1	11.6	9.0	8.6							28
12.4	8.8	8.6	G	8.6	8.0							29
												30
25	25	26	27	25	24	1	..	2	..	2	1	Count
11.6	10.8	9.5	10.0	8.2	7.8	..	..	..	..	..	..	Median
11.3	10.8	10.6	9.6	8.2	7.6	..	..	..	..	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : February 1958

TABLE 15—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 19°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								8.0	9.6	11.0	11.4	11.4
2								8.2	9.6	C	C	C
3								8.9	10.2	12.0	12.0	9.6
4								8.4	9.6	11.8	11.0	11.8
5								8.4	10.0	11.6	10.8	11.4
6												
7								9.0	10.8	12.0	11.6	12.4
8								8.8	10.6	12.0	12.0	12.0
9								8.8	10.0	10.6	11.0	11.2
10		3.3						8.0	9.6	11.6	12.0	11.4
11								8.6	10.0	11.0	12.0	12.0
12				3.7			G	9.0	9.0	11.4	11.6	10.0
13								G	6.8	C	C	C
14								9.0	9.2	C	11.6	11.4
15							G	G	G	C	11.8	11.6
16								3.5	8.4	9.8	C	11.0
17							G	9.2	10.6	12.0	12.0	12.2
18								10.5	11.0	12.0	11.4	C
19				5.2				10.4	10.8	12.1	12.4	10.8
20							G	9.0	11.0	11.8	12.2	11.2
21								ug.8s	10.8	12.4	12.6	12.2
22								8.2	10.2	12.0	11.6	12.0
23								8.8	10.0	11.6	12.0	12.0
24		C						8.6	C	C	C	C
25								6.6	9.6	12.0	12.0	11.6
26								8.4	10.0	11.2	11.5	12.2
27							G	8.8	10.8	12.0	12.1	12.2
28							G	U10.0s	11.1	12.2	12.4	12.6
							G	U8.0s	11.6	12.1	12.6	11.4
Count	..	1	..	2	..	..	7	28	27	23	24	25
Median	8.7	10.0	12.0	12.0	11.6
Mean	8.6	10.0	11.7	11.8	11.5

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : February 1958

TABLE 15—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°20'N

Longitude : 77°5'E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
12.0 C	11.4 C	11.0 C	7.8 C	8.0								1
10.6	8.8	10.6	8.4	8.2								2
9.0 G	8.4 G	9.8 10.0	8.2	8.0								3
												4
G												5
12.6	20.4 9.6	G	G	9.6	8.0				7.0			6
11.6	8.0	G	G	8.4				3.7	3.0			7
11.8	G	G	G	3.6			4.0					8
12.0	12.0	12.0	10.0	G	6.6							9
				9.0								10
10.0 C	G 9.0	G 10.6	G 11.0	G 8.2								11
11.4	11.0	11.0	8.4	7.8	6.4					2.6		12
11.7	12.0	11.6	8.7	8.0	3.7							13
11.8	11.4	11.6	9.0	8.6	6.4				5.0			14
					6.5							15
11.4 G	9.0 G	8.2 G	7.2 3.6	8.4 9.0	6.7			2.2				16
G	G	4.4	8.5	C	S							17
G	G	G	8.6	8.3								18
11.2	6.8	6.6	G	8.0						10.4		19
												20
8.0	10.8	10.6	8.0	8.0								21
11.6	11.0	11.0	G	8.0								22
C	C	C	8.0	7.6								23
11.8	11.2	11.8	8.6	8.2								24
12.2	11.8	10.4	9.2	8.0								25
12.1	11.9	10.0	8.0	8.8								26
12.2	12.3	11.8	8.6	8.7								27
12.3	9.0	G	G	9.6	8.0							28
25	26	26	27	25	8	..	1	2	3	2	..	Count
11.6	9.3	10.0	8.0	8.2	6.6	..	..	..	..	..	..	Median
11.3	11.2	10.2	8.3	8.2	6.5	..	..	..	..	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : February 1958

TABLE 16
Ionospheric Data
75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								2.6	3.3	3.8	4.0	4.4
2									3.4	4.0	C	C
3								2.7	3.4	C	4.1	4.3
4								2.8	3.4	3.8	4.1	4.4
5							2.8		3.3	3.9	4.2	4.3
6								2.8	3.6	4.0	4.2	4.4
7								2.8	3.4	4.0	4.1	4.3
8								2.7	3.5	4.0	4.3	
9							1.9		3.4	4.0	4.2	4.4
10								2.8	3.4	4.1	4.1	4.4
11									3.5		4.2	4.4
12					2.4		2.0			C	C	C
13								2.7	3.4	4.0		4.4
14											4.1	4.2
15									3.3	3.8	4.0	C
16									3.3	3.8	4.2	4.3
17								2.6	3.3	3.8	4.0	4.2
18								2.8	3.4	3.9	4.0	4.2
19								2.6	3.4	4.0	4.1	4.3
20									3.2	3.8	4.0	4.2
21									3.3	3.8	4.0	4.2
22									3.2	3.6	4.0	4.2
23								2.7	C	C	C	C
24									3.3	3.8	4.2	4.4
25								2.8	3.5	4.0	4.3	4.4
26									3.3	3.8	4.3	
27								2.7	3.4	4.0	4.1	4.3
28								2.7	3.4	3.9	4.1	4.4
Count	I	..	3	15	25	23	24	22
Median	2.7	3.4	3.9	4.1	4.3
Mean	2.7	3.4	3.9	4.1	4.3

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : February 1958

TABLE 16
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
4.4 C	4.2 C	4.0 C	3.7 C	3.6 C	2.8							1
4.3	4.2	5.3	3.8	3.5	2.9							2
5.3	4.4		3.8	3.4 C						2.1		3
		4.1	3.8									4
4.5	4.5			3.6	2.9			2.5				5
4.4	4.3		4.1	3.6	3.0							6
4.6	4.4	4.3		3.9				2.0				7
	4.3				2.8							8
4.6	4.3	4.1	3.7	4.1	3.1							9
												10
4.6 C		4.4			C							11
C	C	4.1	4.0	3.6	3.0	2.0						12
4.5	4.4	4.2	3.9	3.6	2.9							13
4.5	4.4	4.2	3.8	3.4	2.8							14
4.3	4.2	4.0	3.8	3.5	2.8							15
4.2	4.4	4.0	3.8	3.6	2.8							16
			4.0	4.4	3.0							17
4.2			3.6	C	2.8		C					18
4.2			3.7	3.4	2.8							19
4.2	4.2			3.4	2.8					2.6		20
4.2			3.7	3.4	2.7							21
4.2	4.2	4.1	3.8	3.5	2.8							22
C	C	C	3.9	3.6	2.8							23
4.4	4.3	4.2	3.9	3.6	3.0							24
4.4	4.4	4.1	3.8	3.5	2.8							25
4.4	4.2	4.0	3.8	3.4	2.8							26
4.4	4.3	4.0	3.8	3.4	3.0							27
4.4	4.4	4.1		3.7	3.0							28
22	19	17	21	23	23	1	..	2	..	2	..	Count
4.4	4.3	4.1	3.8	3.6	2.8	..	..	..	..	..	..	Median
4.4	4.3	4.2	3.8	3.6	2.9	..	..	..	..	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic: fbEs

Unit: Mc

Month: February 1958

TABLE 16—contd.

Ionospheric Data

75°0'E Mean Time

Latitude: 10°2' N

Longitude: 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								3.0	3.6	4.0	4.3	4.3
2								3.1	3.6	C	C	C
3								3.1	3.7	4.0	4.3	4.3
4								3.1	3.7	4.0	4.1	4.5
5								3.1	3.6	4.0	4.2	4.4
6								3.1	3.7	4.0	4.3	4.4
7								3.1	3.7	4.0	4.3	4.4
8								3.1	3.8	4.0	4.3	4.8
9								3.2	3.6	4.0	4.3	4.4
10		2.4						3.2	3.6	4.0	4.4	4.5
11								3.1	3.7	4.0	4.2	4.5
12										C	C	C
13								3.0	3.7	C	4.3	4.4
14										C	4.3	4.4
15								3.0	3.6	4.0	C	4.5
16								3.0	3.6	4.1	4.2	4.3
17								3.0	3.6	4.0	4.1	4.2
18								3.1	3.6	4.0	4.1	4.2
19					3.4			3.1	3.7	4.0	4.2	4.4
20								3.0	3.6	3.9	4.0	4.2
21								3.0	3.6	3.9	4.2	4.3
22								3.0	3.5	3.9	4.0	4.2
23								3.0	C	C	C	C
24		C						3.0	3.6	4.0	4.3	4.5
25								3.0	3.8	4.1	4.6	4.4
26								3.1	3.6	4.0	4.3	4.4
27								3.1	3.7	4.1	4.3	4.5
28								3.1	3.6	4.0	4.3	4.4
Count	..	I	..	I	..	..	..	26	25	23	23	23
Median	3.1	3.6	4.0	4.3	4.4
Mean	3.1	3.6	4.0	4.2	4.4

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs
Unit : Mc
Month : February 1958

TABLE 16—*contd.*
Ionospheric Data
75.0°E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.5 C	4.1 C	3.9 C	3.7 C	3.2								1
4.3	4.2	4.4	3.6	3.2								2
5.7	4.3	4.0 4.0	3.7	3.2								3
												4
												5
	8.0			3.8	2.6				2.7			6
4.4	4.7			3.2				2.8	2.4			7
4.5	4.4						2.4					8
												9
4.4	4.3	4.0	4.2	4.0	2.5							10
4.6 C												11
	4.5	4.0	3.7	3.4	2.5					2.0		12
4.4	4.3	4.0	3.8	3.2	2.4							13
4.4	4.4	4.0	3.7	3.2					2.3			14
4.3	4.2	4.0	3.6	3.1								15
												16
4.2	4.2	4.0 4.3	4.0	3.2 3.6 C								17
			3.6	3.1	2.8							18
			3.5	3.2								19
4.2	4.1	4.0								2.8		20
												21
4.2	4.1	3.8	3.8	3.1								22
4.2 C	6.0 C	4.1 C	3.8	3.1								23
			3.8	3.2								24
4.4	4.4	4.0	3.8	3.1								25
4.5	4.4	4.0	3.8	3.1								26
												27
4.3	4.1	4.0	3.7	3.1								28
4.4	4.1	4.0	3.6	3.2								29
4.5	4.2			3.3	2.5							30
19	20	18	17	22	6	..	1	1	3	2	..	Count
4.4	4.3	4.0	3.7	3.2	2.5	..	..	..	..	..	..	Median
4.4	4.6	4.0	3.7	3.3	2.6	..	..	..	..	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : February 1958

TABLE 17
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2'N

Longitude : 77°5'E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2.8	2.4	2.0	2.0	1.8	2.0	1.6	1.9	2.2	2.5	2.6	3.0
2	2.6	2.3	2.4	2.1	1.8	1.8	1.6	2.5	2.4	2.7	C	C
3	1.8	2.0	2.1	1.8	1.8	2.2	1.8	2.3	2.4	C	2.8	3.0
4	2.2	2.2	2.3	2.3	2.4	2.2	1.7	2.2	2.4	2.7	2.7	3.0
5	2.1	2.0	2.0	2.3	2.1	2.3	1.4	2.4	2.5	2.6	2.8	3.0
6	1.7	2.6	1.7	1.8	2.4	2.2	1.5	2.2	2.7	2.8	2.8	3.0
7	2.0	1.6	1.7	1.8	1.7	1.7	1.5	2.1	2.3	2.7	2.8	3.1
8	2.5	2.3	2.1	2.5	2.1	2.2	1.7	2.2	2.4	2.8	3.2	5.0
9	C	1.9	2.1	2.1	1.8	1.9	1.9	2.1	2.4	2.8	3.0	3.2
10	2.2	2.4	2.4	2.2	2.3	2.1	1.8	2.2	2.5	2.8	2.8	3.0
11	2.1	2.2	1.8	2.0	2.0	1.8	1.8	2.3	2.3	3.0	3.0	3.1
12	1.7	1.6	1.5	2.3	1.6	2.1	1.6	2.5	3.6	C	C	C
13	1.9	2.0	2.0	2.2	2.3	2.4	1.7	2.1	2.4	2.9	4.4	3.2
14	1.6	1.6	1.6	2.1	1.8	1.7	1.7	2.2	2.7	3.0	3.0	3.2
15	2.2	1.7	1.9	1.8	1.6	1.6	1.6	2.2	2.3	2.8	2.8	C
16	1.9	1.8	2.0	1.7	1.8	1.7	1.5	1.8	2.4	2.8	3.1	3.0
17	1.7	1.9	1.6	2.2	1.6	1.7	1.5	2.0	2.2	2.4	2.8	3.2
18	1.6	1.6	1.6	1.6	2.0	2.1	1.4	2.3	2.6	3.0	3.0	3.0
19	2.0	1.8	1.4	1.5	1.8	2.0	1.5	2.3	2.6	3.0	3.0	3.2
20	2.0	1.7	1.6	1.4	1.5	1.7	1.3	1.7	2.3	2.8	2.8	3.2
21	1.7	2.0	1.7	1.7	1.8	1.7	1.6	2.0	2.3	2.6	2.8	3.0
22	1.9	2.0	1.8	1.9	1.9	2.0	1.5	2.4	2.4	2.5	3.0	3.0
23	2.0	1.7	2.1	1.6	1.6	1.8	1.5	1.9	C	C	C	C
24	1.7	2.0	2.1	1.8	1.7	2.1	1.5	1.7	2.0	2.6	2.6	2.0
25	1.7	1.7	2.0	1.9	2.0	2.0	1.6	1.9	2.4	2.7	3.0	3.0
26	1.7	2.3	2.2	1.7	1.7	1.8	1.6	1.9	2.4	2.6	3.5	5.6
27	2.1	2.2	1.7	1.7	1.6	1.6	1.6	1.8	2.4	2.7	2.9	3.0
28	2.2	1.9	1.9	1.6	1.6	1.6	1.6	1.6	1.1	2.5	2.5	3.0
Count	27	28	28	28	28	28	28	28	27	25	25	24
Median	2.0	2.0	2.0	1.8	1.8	2.0	1.6	2.2	2.4	2.7	2.8	3.0
Mean	2.0	2.0	1.9	1.9	1.9	1.9	1.6	2.1	2.4	2.7	2.9	3.2

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin
Unit : Mc
Month : February 1958

TABLE 17
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
3.2	3.0	2.7	2.5	2.3	2.3	1.7	2.3	2.2	2.2	2.6	C	1
C	C	C	C	C	2.9	1.7	2.5	2.2	2.0	2.0	2.0	2
3.0	3.0	2.7	2.4	2.8	2.2	1.8	2.4	2.3	2.2	2.0	2.1	3
3.0	3.0	3.0	2.5	2.6	2.4	2.0	1.8	2.2	2.2	2.1	1.9	4
3.3	3.1	3.0	2.4	C	2.8	1.8	2.0	2.0	2.1	2.0	2.5	5
3.0	3.1	3.1	3.0	2.5	2.2	1.8	1.5	1.7	2.2	2.5	1.8	6
3.2	3.1	3.0	2.4	2.5	2.2	1.9	1.8	2.0	3.0	2.2	2.2	7
3.3	3.0	3.0	2.7	3.0	3.0	2.0	2.4	1.9	2.4	3.0	2.1	8
4.6	3.8	3.6	3.0	2.8	2.2	2.0	2.2	2.2	2.4	2.5	2.6	9
3.1	3.0	2.7	2.4	2.6	2.0	1.8	2.0	2.2	1.7	2.3	2.2	10
3.6	4.8	3.2	2.9	3.7	C	2.0	1.6	2.6	2.4	2.0	C	11
C	C	3.0	3.1	2.6	2.0	1.5	2.0	2.2	2.0	1.9	2.4	12
3.2	3.2	2.8	2.5	2.5	2.2	1.8	1.9	1.7	1.7	1.7	2.3	13
3.2	3.2	2.9	2.6	2.4	2.2	1.7	1.8	1.4	1.9	1.6	2.2	14
3.0	3.0	2.9	2.4	2.3	2.2	1.8	1.8	2.1	2.3	2.2	2.3	15
3.0	3.1	2.8	2.5	2.5	2.2	1.8	2.2	2.0	2.1	2.0	2.2	16
3.6	3.0	3.2	2.8	3.2	2.4	1.8	2.0	2.0	1.7	1.8	1.7	17
3.2	3.4	2.8	2.6	C	2.2	1.8	C	1.8	2.4	1.8	2.2	18
3.1	3.5	3.0	2.4	2.4	2.7	1.7	2.0	2.0	1.8	1.7	1.6	19
3.1	3.0	3.0	2.8	2.2	2.2	1.7	1.6	1.7	2.1	2.0	2.0	20
2.9	3.2	2.7	2.3	2.4	1.9	1.7	1.5	1.7	2.1	2.0	1.8	21
3.0	3.1	2.7	2.4	2.8	2.2	2.2	1.7	1.9	2.1	1.8	1.9	22
C	C	C	2.7	2.6	2.2	1.9	2.1	2.0	2.2	1.9	2.0	23
2.0	2.0	3.0	2.4	2.8	2.0	1.8	2.2	2.2	2.0	1.9	2.1	24
3.0	3.0	3.0	2.8	2.6	2.2	1.9	2.0	2.0	2.2	2.4	2.9	25
3.1	2.8	2.6	2.5	2.6	2.2	1.9	1.7	2.0	2.1	2.0	2.0	26
3.1	3.0	2.9	2.5	2.4	2.2	1.9	1.7	2.1	2.0	1.9	1.8	27
3.0	3.0	3.0	2.5	2.3	2.2	3.0	1.7	2.2	2.3	2.0	2.2	28
25	25	26	27	25	27	28	27	28	28	28	27	Count
3.1	3.0	3.0	2.5	2.6	2.2	1.8	2.0	2.0	2.1	2.0	2.1	Median
3.2	3.1	2.9	2.6	2.6	2.3	1.9	1.9	2.0	2.1	2.1	2.0	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : February 1958

TABLE 17—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.7	2.4	2.0	1.6	2.1	2.0	2.1	2.2	2.4	2.6	3.1	3.0
2	2.6	2.6	2.6	2.3	2.0	1.9	2.2	2.4	2.6	C	C	C
3	1.8	1.6	1.8	2.2	1.9	2.2	2.2	2.4	2.6	2.6	3.0	3.0
4	2.1	2.2	2.3	2.2	2.3	2.2	2.1	2.3	2.6	2.6	2.8	2.9
5	2.0	2.1	2.2	1.6	2.0	2.5	2.8	2.4	2.6	2.6	3.0	3.1
6	1.9	2.0	2.2	1.8	1.9	2.3	2.2	2.5	2.6	2.6	2.9	3.0
7	1.7	1.9	1.6	2.2	1.7	2.0	2.2	2.2	2.6	2.6	2.9	3.2
8	2.0	2.6	2.2	2.0	2.3	2.4	2.4	2.1	3.0	3.0	4.5	4.0
9	1.7	1.7	2.3	2.1	2.0	1.8	2.4	3.0	2.4	2.7	3.0	3.4
10	1.8	2.2	2.1	1.7	2.2	2.2	2.3	2.4	2.6	3.0	3.0	3.2
11	2.0	2.1	2.2	1.8	1.7	2.0	2.2	2.2	2.7	2.6	3.0	3.5
12	1.9	1.7	1.9	2.0	1.9	2.1	2.2	2.8	3.6	C	C	C
13	1.8	1.9	1.9	2.2	2.0	2.2	2.3	2.2	2.6	C	3.2	3.2
14	1.7	1.8	1.8	2.0	2.1	2.2	2.2	2.5	3.0	C	3.0	3.3
15	1.8	1.5	1.8	1.8	1.6	1.7	1.9	2.2	2.7	2.7	C	3.0
16	2.2	1.9	1.7	1.7	2.0	2.0	2.2	2.0	2.5	3.2	3.1	3.0
17	1.7	1.7	1.7	1.8	1.7	1.7	2.0	2.1	2.4	2.5	3.0	3.1
18	2.0	1.4	1.5	1.6	1.9	1.7	2.4	2.4	2.6	2.8	3.0	3.0
19	1.8	1.5	1.6	1.6	2.1	2.4	2.4	2.6	2.8	3.0	3.0	3.2
20	1.7	1.4	1.6	1.4	1.9	1.8	1.8	2.3	2.5	2.8	3.0	3.0
21	2.2	2.1	1.8	1.9	1.7	1.8	1.9	2.2	2.5	2.5	2.8	2.8
22	1.9	2.1	1.8	1.8	2.0	2.0	2.2	2.2	2.4	2.6	3.0	3.2
23	1.8	2.0	1.6	1.7	1.7	1.7	1.6	2.0	C	C	C	C
24	2.2	C	2.2	1.8	1.8	2.3	2.1	1.9	2.4	2.5	2.9	2.2
25	1.8	2.0	1.8	1.6	2.0	1.7	1.9	2.2	2.7	2.6	3.8	3.0
26	2.0	2.2	2.0	1.6	1.6	1.9	1.9	2.1	2.5	2.5	3.2	4.4
27	2.0	1.8	1.6	1.6	1.9	1.9	1.8	1.8	2.8	2.6	2.9	3.0
28	2.1	2.0	2.0	1.7	1.6	1.8	1.8	1.9	2.2	2.3	2.6	3.1
Count	28	27	28	28	28	28	28	28	27	23	24	25
Median	1.9	2.0	1.8	1.8	1.9	2.0	2.2	2.2	2.6	2.6	3.0	3.1
Mean	2.0	1.9	1.9	1.8	1.9	2.0	2.1	2.3	2.6	2.7	3.1	3.2

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin
Unit : Mc
Month : February 1958

TABLE 17—contd.
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
3.0	2.9	2.5	2.6	2.4	2.3	1.6	2.3	2.0	2.2	2.2	2.4	1
C	C	C	C	3.3	2.3	1.5	1.7	2.2	2.1	2.2	2.0	2
3.1	2.8	2.8	2.6	2.4	2.4	1.7	2.2	2.0	2.1	2.6	2.0	3
3.0	3.0	2.7	3.0	2.4	2.4	1.7	2.4	2.2	1.9	2.2	2.4	4
3.2	3.0	2.6	2.4	2.8	2.4	1.6	2.0	2.2	2.2	2.7	2.3	5
3.4	3.3	3.0	3.1	2.4	2.0	1.4	1.8	2.6	2.4	2.4	1.8	6
3.2	3.2	3.0	2.5	2.4	2.4	1.8	1.7	2.0	1.6	2.2	2.3	7
3.4	3.0	3.0	4.2	2.8	2.6	1.5	1.5	2.2	2.6	2.1	2.1	8
4.5	3.0	3.3	3.3	2.5	2.3	1.4	2.2	2.2	2.6	2.5	2.4	9
3.1	3.0	2.7	2.7	2.4	1.9	1.7	2.2	1.7	2.2	2.4	2.1	10
3.4	5.6	3.0	4.0	3.1	2.4	1.9	2.2	2.2	2.2	2.2	1.7	11
C	3.5	3.0	2.6	2.5	1.9	1.5	2.1	2.2	2.2	1.8	2.0	12
3.2	3.0	2.8	2.9	2.2	2.0	1.4	1.9	2.1	2.0	2.3	1.5	13
3.2	3.0	2.7	2.6	2.3	2.4	1.4	1.6	1.6	1.6	2.2	2.0	14
3.2	3.0	2.8	2.8	2.2	2.4	1.5	2.1	2.1	2.2	2.2	2.2	15
3.0	3.2	2.6	2.8	2.3	2.4	1.5	2.1	1.7	1.9	2.0	1.8	16
3.0	3.1	2.7	2.6	3.0	2.2	1.5	2.0	1.7	1.9	1.7	1.6	17
3.2	3.1	2.8	2.6	C	2.4	1.5	2.1	1.7	1.7	2.0	2.1	18
3.2	2.8	2.8	2.6	2.2	2.4	1.4	1.9	1.8	1.9	2.0	1.7	19
3.1	3.0	2.8	3.0	2.6	2.2	1.4	1.4	1.9	2.0	1.7	2.0	20
3.0	2.9	2.4	2.6	2.2	2.0	1.5	1.7	2.3	2.0	2.2	1.7	21
3.0	3.0	2.7	2.8	2.4	2.2	1.6	1.7	2.0	1.9	1.9	2.2	22
C	C	C	3.0	2.2	1.9	1.7	2.2	1.9	2.2	2.0	1.9	23
2.0	3.2	2.8	2.8	2.3	2.4	1.4	2.0	2.0	2.2	2.1	1.9	24
3.0	3.6	3.0	2.8	2.2	2.4	1.4	2.0	2.2	2.0	2.0	1.7	25
3.0	2.8	2.7	2.8	2.2	2.3	1.5	1.9	2.0	2.0	1.6	1.9	26
3.0	2.9	2.7	2.4	2.2	2.6	1.6	2.0	2.0	2.0	1.9	2.0	27
3.0	2.7	2.7	2.8	2.0	2.2	1.6	2.1	2.2	2.3	2.2	2.0	28
25	26	26	27	27	28	28	28	28	28	28	28	Count
3.1	3.0	2.8	2.8	2.4	2.4	1.5	2.0	2.0	2.0	2.2	2.0	Median
3.1	3.1	2.8	2.8	2.4	2.3	1.5	2.0	2.0	2.1	2.1	2.0	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2
 Unit : Km
 Month : February 1958

TABLE 18
 Ionospheric Data
 75°0'E Mean Time

Latitude : 10°2' N
 Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1									L	L	L	L
2									L	L	L	L
3								L	L	L	L	L
4									L _H	L	L	L
5												
6								L	L	L	L	L
7									L	L	L	L
8									L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11									L _H	L	L _H	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15												
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20												
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
Count							
Median							
Mean							

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2

Unit : Km

Month : February 1958

TABLE 18

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L C L L L	L C L L L	L C L L L _H	L C L L L	L C								1
												2
												3
												4
												5
L L L L L	L L L L L	L _H L _H L L _H L	L _H L _H L L _H L _H	L _H L _H L L _H								6
												7
												8
												9
												10
L C L L L	L C L L L	L L _H L L L	L L L L L	L L L L L	C L L							11
												12
												13
												14
												15
L L L L L	L L L L L	L L L L L	L L L L L	L C L L L	L L L							16
U400L	U420L	410	420	450								17
												18
												19
												20
L L C L L	L _H L C L L	L L C L L	L L L L L	L L L L L	L L L L L							21
												22
												23
												24
												25
L L L	L L L	L L L	L L L	L L L	L L L							26
												27
												28
I	I	I	I	I	..							Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2
Unit : Km
Month : February 1958

TABLE 18—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L ^H	L	L ^H	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
Count							
Median							
Mean							

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : $h/F2$

Unit : Km.

Month : February 1958

TABLE 18—*contd.*

Ionospheric Data

75.0°E Mean Time

Latitude : 10° 20' E

Longitude : 77° 5' N

[illegible]

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F
Unit : Km
Month : February 1958

TABLE 19
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	240	240	260	255	240	220	260	260H	240	230	215	215
2	270	275	260	U250F	245	240	245	260	240	230	C	C
3	235	230	U225F	U220F	225	250	290	265	245	C	225	210H
4	260	250	255	255	250	240	260	255	240	225	220H	200
5	240	240	280	300	295	240	235	260H	240	220H	215	210H
6	235	220	230	265	300	280	270	265	240	235	215	210
7	240	220	215	230	225	250	295	270	245	220	210	195H
8	275	235	220	255	265	230	230	260	240	230	210H	B
9	G	230	225	245	230	235	250	260	240	230	220	220
10	250	245F	U240F	265	270	240	U230F	260	235	230	220H	220
11	275	265	260	240	260	260	235	235	240	220	240	240
12	285	355	430	F	F	U360F	340	260	240	C	C	C
13	235	235	240	255	240	205	220	250	230	220	U220H	205
14	235	220	210	240	260	240	220	250	235	220	210H	210
15	260	245	235	240	220	230	260	250	230	225	220	C
16	255	240	230	220	240	240	260	250	240	225	220	220
17	240	240	220	235	220	220	270	260	230	220	220H	215
18	240	235	220	240	260	240	255	260	240	225	220	210
19	220	225	240	240	240	230	240	260	240	225	220	220
20	220	225	220	220	220	220	260	250	235	220	215	210
21	220	225	225	270	340	315	245	245	230	220	205	210
22	230	230	225	240	260	265	220	230	240	220	215	200H
23	220	230	255	250	220	220	270	260	C	C	C	C
24	240	250	235	230	240	235	240	250	240	220	215	200
25	230	220	225	235	230	230	255	255	235	230	220	210
26	270	260	240	240	235	220	250	250	240	230	225	B
27	280	255	235	240	230	225	245	250	240	230	220	210
28	U280F	240	230	240	240	225	240	260	240	230	220	210
Count	27	28	28	27	27	28	28	28	27	25	25	22
Median	240	240	230	240	240	240	250	260	240	225	220	210
Mean	245	240	240	245	250	245	255	255	240	225	215	210

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic : h'F
Unit : Km
Month : February 1958

TABLE 19
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
210H C	205H C	205H C	220 C	240 C	260H 260H	305H 300	F 415	540 U460F	400 U410F	320 U400F	C F	1
205 A	200H 200H	A 220	210H 220	235H 235H	260 260H	305 300H	F 420F	F 410	U385F 360	U330F 300	U295F 245	2
215H	215H	215	220	C	270H	315	410	335	260	260	250	3
215H	230	230	225	250	270H	305H	385	365H	280	265	240	4
205H	215	225	230	240	270H	305H	360H	320	300H	315	285	5
200H	220	225	225	240	265H	305H	380H	340H	315	300	260	6
215	215	220	220	240	260H	300H	405H	F	U260F	F	U255F	7
220H	210	215	215	U245A	260	310	U450F	415	U330F	280	260	8
220H C	220H C	240 215	240 220	255 210H	C 260	325 300	280 340	260 U320F	240 260	235 260	C 245	9
200H	210	210	225	240	260	300	405	330	280	240	260	10
200H	200H	220	230	240	255	300	405	385	305	270	265	11
205	210	220		240	260	295	405	F	U460F	F	290	12
210H	215	220	220	240	260	300	U420F	U400F	340	280	270	13
220	220	220	220	U245A	260H	310H	440H	360H	280	250	240	14
220	220	215	210H	C	260	300	C	U340F	280	260	240	15
210	220	220	220	240	250	300	360F	300	240	240	240	16
200H	215	220	220	240	250	300	365	320	260	260	240	17
205	210	220	230	245	250	300H	410	335	275	260	235	18
210	205H	210H	220	235	260	300	400	380	260	235	230	19
C	C	C	235	240	260	300	400	380	270	240	240	20
205	210	225	230	240	260	290	400F	F	300	260	245	21
220	220	220	225	240	260	300	F	420F	390F	360	290	22
215	215	200H	220H	240	260	300	465	F	F	F	290	23
215	210	220	230	240	260	300	475	F	F	U345F	310	24
215	220	220	225	240	260	300	440	F	U435F	335	280	25
24	25	25	27	25	27	28	24	21	26	25	25	Count
210	215	220	220	240	260	300	405	360	290	265	255	Median
210	215	220	225	240	260	300	400	365	315	285	260	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km

Month : February 1958

TABLE 19—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2'N

Longitude : 77°5'E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	255	245	260	255	225	220	285	245	235	220	215	210
2	U275F	275	U260F	250	245	235	280	250	235	C	C	C
3	225	220	220	U230F	U240F	F	285	250	230	225	220A	210H
4	260	240	255	245	240	240	280	245	235	220H	210H	210H
5	225	260	290	300	260	230	280	245	240	215H	205H	210
6	225	220	260	285	315	265	280	255	235	225	210	200H
7	230	215	220	240	220	270	290	250	240	210H	205	205
8	240	220	245	240	240	220	280	250	240	220H	B	220
9	245	215	235	250	235	220	280	250	230	220	220	215
10	240	U250F	250	265	260	U220F	280	245	230	225	225	220
11	280	260	260	240	275	240	250	230	230	235	240	235
12	305	400	420	F	U365F	U360F	270	240	230	C	C	C
13	235	230	240	255	220	205	260	240	220	C	210H	205H
14	230	220	220	260	250	235	250	245	230	C	210	205H
15	260	230	240	230	225	230	275	240	230	220	C	205H
16	245	240	225	230	235	240	280	240	235	225	220	220
17	240	240	220	220	220	235	280	240	220	220	210	215
18	245	235	225	240	260	225	280	260	240	220	210	220
19	220	240	240	250	220	220	280	250	240	220	220	220
20	220	220	220	220	220	230	260	240	220	220	215	205
21	225	215	245	300	340	280	265	240	225	215	200	210
22	220	235	260	250	265	240	260	245	230	220	210	210
23	230	240	230	230	220	240	280	245	C	C	C	C
24	250	C	230	230	230	230	270	240	225	210	210	200
25	230	230	230	230	230	220	265	240	235	225	220	200
26	260	245	240	230	225	230	270	245	235H	220	215	220
27	280	240	245	240	235	220	270	245	235	220	215	210
28	260	240	230	240	235	220	280	245	235	225	210	210
Count	28	27	28	27	28	27	28	28	27	23	23	25
Median	240	240	240	240	235	230	280	245	235	220	210	210
Mean	245	240	250	245	250	240	275	245	230	220	215	210

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km

Month : February 1958

TABLE 19—contd.

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
210H	220H	205	230	250H	285H	395	520F	480	300	280	260	1
C	C	C	C	255H	280	340	U450F	F	U390F	F	240	2
205H	210H	A	230	245H	280	360	F	U400F	U365F	U300F	275	3
A	205	225	220H	240H	275H	360	480	350	340	280	245	4
220H	210	220	235	260	295	360	415	280	260	255	250	5
205H	A	225	240	265H	285H	360H	400H	310	280	250	245	6
220	230	230	230	250H	280H	345H	390H	300H	310H	300	275	7
215H	220	245	240	255	280H	305H	360H	320	300	270	260	8
210	215	220	230	245H	275H	355H	F	F	F	265F	255F	9
215H	210H	215	245	260	285	385	430	U370F	300	260	275	10
220	B	245	260	275	320H	330	260	240	240	240	245	11
C	220	215	220	255	280	345	F	300	260	255	240	12
200H	210	215	230	240	280	350	385	305	260	250	240	13
205H	200H	230	230	240	270	350	420	330	290	265	260	14
205	210	220	230	240	275	345	U440F	U470F	U445F	F	290	15
205H	220	220	240	240	270	360	U400F	U400F	300	280	240	16
220	220	230	240	260	280H	370H	U430FH	300H	260	240	230	17
220	220	220	220	C	280	360	U380F	300F	260	260	240	18
220	220	220	220	240	260	340	320F	260	240	240	240	19
200H	205H	220	220	240	275	340	340	280	240	260	230	20
205	220	220	240	240	270H	350H	395F	300	260	240	225	21
200H	A	235	235	240	280	360	395	310	240	235	220	22
C	C	C	240	240	280	350	400	320	240	240	250	23
220	220	220	230	245	270	340	F	360F	280	250	240	24
220	220	220	230	250	280	360	480F	420F	380F	320	300	25
215	200	215H	230H	245	280	360	U500F	F	F	320	295	26
210	215	225	225	250	280	370	U550F	F	U365F	U330F	300	27
215	215	225	230	255	280	375	F	F	U375F	U290F	260	28
24	23	25	27	27	28	28	23	23	26	26	28	Count
210	215	220	230	245	280	360	400	310	285	260	250	Median
210	215	220	230	250	280	355	410	335	300	270	255	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds.

Characteristic : h'E

Unit : Km

Month : February 1958

TABLE 20
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								160	105	105	A	105
2								A	110	105	C	C
3								115	A	C	A	105
4								120	110	105	A	A
5										105	105	105
6								A	110	A	105	105
7								A	105	A	A	A
8								120	105	105	A	B
9								125M	110	A	110	A
10								120	110	A	A	A
11								120	105	105	A	A
12								140	B	C	C	C
13								120	110	A	B	A
14								120	115	115	A	A
15								120	110	A	A	C
16								120	110	110	A	A
17								120	110	105	110	A
18								120	115	115	110	105
19								A	120	115	110	105
20								120	115	A	A	110
21								120	110	110	A	110
22									110	110	110	110
23								115	C	C	C	C
24								120	110	110	A	A
25								120	110	110	110	110
26								120	115	A	A	B
27								A	A	A	A	A
28								A	A	A	A	A
Count								20	23	15	8	10
Median								120	110	110	110	105
Mean								120	110	110	110	105

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds

Characteristic : h'E

Unit : Km

Month : February 1958

TABLE 20

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	105	105	105	105	A							1
C	C	C	C	C								2
A	105	A	A	A	115							3
105	105	110	110	110								4
105	105	105	A	C								5
105	110	105	110	A	105							6
A	110	110	100	110	115							7
A	A	105	105	A								8
B	A	120	115	115	115							9
105	A	105	105	A	A							10
A	B	A	105	B	C							11
C	C	A	115	110	A							12
A	A	A	A	A	115							13
A	A	A	A	A	110							14
A	A	A	A	A	115							15
110	110	110	110	110	115							16
115	110	110	105	A	A							17
110	115	105	105	C	120							18
110	110	110	105	110	A							19
A	110	110	110	A	A							20
110	115	110	A	110	110							21
110	A	110	110	A	120							22
C	C	C	110	115	115							23
A	110	A	110	110	110							24
A	A	A	110	110	120							25
A	A	A	A	110	115							26
A	A	A	A	A	A							27
A	A	A	105	A	A							28
To	13	15	19	12	15							Count
110	110	110	110	110	115							Median
110	110	110	110	110	115							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds.

Characteristic : h'E
Unit : Km
Month : February 1958

TABLE 20—*contd.*
Ionospheric Data
75° 6' E Mean Time

Latitude : 10° 2' N
Longitude : 77° 5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								105 110H A	105 110 A	A C A	105 C A A	105 C 105 105 A
2								115 110	105 105	105 105	105	
3								A	110	A	A	105
4								A	A	A	A	105
5								110	105	A	B	A
6								A	110	A	A	110
7								110	105	A	A	
8								A	110	A	A	
9								A	110	A	A	
10												
11							130	110 125 110	105 B A	A C C	A C A	C A A
12								120	115	C	A	A
13							140	115	110	A	C	A
14												
15								115 110 115	110 110 110	110 105 110	A A 105	A 110 110
16								120	115	A	A	A
17							150	120	115		A	
18												
19								115 115 110	110 110 C	A 110 C	110 A C	110 A C
20								110 120	110 110	A 110	A B	A
21								120	110	110	A	A
22												
23								130 120 135	115 A A	A A A	A A A	B A A
24												
25												
26												
27												
28												
Count							6	21	20	8	5	11
Median							130	115	110	110	105	110
Mean							135	115	110	110	105	110

Sweep 1° 0 Mc. to 25° 0 Mc. in 27 Seconds.

Characteristic : h'E
Unit : Km
Month : February 1958

TABLE 20—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	105	105	A								1
C	C	C	C									2
105	A	A	A	115								3
105	105	105	110	110								4
105	105	A	A									5
110	A	105	110	A	A							6
A	110	110H	105	110								7
A	105	105	B									8
B	110	120	120	115								9
110	A	105	A	A								10
A	B	105	B	B								11
C	A	A	A	110	A							12
A	A	A	A	115								13
A	A	A	A	A								14
A	A	A	A	110								15
110	110	105	110	110								16
110	110	105	110	A								17
110	110	105	105	C								18
110	110	110	110	A								19
110	110	110	110	A								20
110	A	110	110	115								21
110	A	110	115	120								22
C	C	C	110	115								23
A	A	110	110	110								24
A	A	110	110	110								25
A	A	A	A	110								26
A	A	A	110	A								27
A	A	110	115	A	A							28
12	10	18	17	14	—							Count
110	110	110	110	110	—							Median
110	110	110	110	110	—							Mean

Sweep 1°0 Mc. to 25°0 Mc. in 27 Seconds.

Characteristic : h'Es
Unit : Km
Month : February 1958

TABLE 21
Ionospheric Data
75.0°E Mean Time

Latitude : 10.2° N
Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								105	100	100	100	100
2								G	100	100	C	C
3								110	100	C	100	100
4								100	105	100	100	100
5							95	G	100	100	100	100
6								110	105	100	100	100
7								105	100	100	100	100
8								100	100	100	100	100
9							115	G	105	100	100	100
10								100	100	100	100	100
11								G	100	G	100	100
12					100		125	G	100	C	C	C
13								110	100	100	100	100
14								G	G	G	100	100
15								G	100	100	100	C
16								G	100	100	100	100
17							140	110	100	100	100	100
18								110	100	105	100	100
19								120	100	100	100	100
20								100	100	100	100	100
21								G	100	100	100	100
22									100	100	100	100
23								110	C	C	C	C
24								G	100	100	100	100
25								100	100	100	100	100
26								G	100	100	100	100
27								100	100	100	100	100
28								100	100	100	100	100
Count	1	..	4	16	26	29	25	24
Median	105	100	100	100	100
Mean	105	100	100	100	100

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds.

Characteristic : h'Es
Unit : Km
Month : February 1958

TABLE 21
Ionospheric Data
75.0°E Mean Time

Latitude : 10.2° N
Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
100 C	100 C	100 C	100 C	100 C	105							1
100	100	100	100	100	110							2
100	100	100	100	100								3
G	G	G	100	C						120		4
												5
100	100	G	G	100	100			100				6
100	100	G	100	100	110							7
100	100	100	G	100	100			120				8
100	100	G	G	G	110							9
100	100	100	100	100	100							10
100	100	100	G	G	C							11
C	C	100	100	100	105	110						12
100	100	100	100	100	105							13
100	100	100	100	100	105							14
100	100	100	100	100	105							15
100	100	100	100	100	105							16
G	G	G	120	115	100							17
100	G	G	100	C	105		C					18
100	G	G	115	100	105							19
100	100	G	100	100	100					110	120	20
100	G	G	100	100	100							21
100	100	100	100	100	110							22
C	C	C	100	100	110							23
100	100	100	100	100	100							24
100	100	100	100	100	110							25
100	100	100	100	100	100							26
100	100	100	100	100	100							27
100	100	100	G	100	100							28
23	20	17	22	23	24	1	..	2	..	2	1	Count
100	100	100	100	100	105	..	..	..	..	..	..	Median
100	100	100	100	100	105	..	..	..	..	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds.

Characteristic : h'Es

Unit : Km

Month : February 1958

TABLE 21—*contd.*

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								105	100	100	100	100
2								105	100	C	C	C
3								105	100	100	100	100
4								105	105	100	100	100
5								105	100	100	100	100
6								105	100	100	100	100
7								105	100	100	100	100
8								100	100	100	100	100
9								100	100	100	100	100
10		110						105	100	100	100	100
11							G	100	100	100	100	100
12				110			G	G	100	C	C	C
13								105	100	C	100	100
14							G	G	G	C	100	100
15								120	100	100	C	100
16							G	100	100	100	100	100
17								100	100	100	100	G
18								105	100	100	100	100
19					100			105	100	100	100	100
20							G	100	100	100	100	100
21								105	100	100	100	100
22								100	100	100	100	100
23		C						105	C	C	C	C
24								100	100	100	100	100
25								100	100	100	100	100
26							G	100	100	100	100	100
27							G	100	100	100	100	100
28							G	100	100	100	100	100
Count	..	1	..	2	..	..	..	26	26	23	24	14
Median	105	100	100	100	100
Mean	105	100	100	100	100

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds.

Characteristic : h'Es

Unit : Km

Month : February 1958

TABLE 21—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2'

Longitude : 77°5'

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	105								1
C	C	C	C	105								2
100	100	100	100	105								3
100	100	100	G	105								4
G	G	100	100									5
G	100	G	G	100	100				115			6
100	100	G	G	105				105	100			7
100	100	G	G	100			120					8
100	G	G	G	G								9
100	100	100	100	100	100							10
100	G	G	G	G								11
C	100	100	100	100	105					110		12
100	100	100	100	100	125							13
100	100	100	100	105	105				120			14
100	100	100	100	105	110							15
100	100	100	100	100	110			110				16
G	G	115	120	100								17
G	G	G	100	C	110							18
G	G	G	100	100								19
100	100	100	G	100								20
100	100	100	100	100								21
100	100	100	G	105								22
C	C	C	100	100								23
100	100	100	100	100								24
100	100	100	100	100								25
100	100	100	100	100								26
100	100	100	100	100								27
100	100	G	G	100	100							28
20	20	18	18	23	9	..	1	2	3	1	..	Count
100	100	100	100	100	105	..	..	..	..	..	..	Median
100	100	100	100	100	105	..	..	..	..	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds.

Characteristic : (M3000)F2

Unit : —

Month : February 1958

TABLE 22
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2.95	2.95	2.90	2.85	2.90	3.10	2.90	2.45H	2.50	2.40	2.30	2.20
2	U2.70F	U2.75F	U2.75S	F	2.90	3.00	U3.00F	F	U2.55F	2.30	C	C
3	F	F	F	F	3.15	U3.20F	U2.80F	2.65	2.60	C	2.40	2.30
4	F	F	F	2.90F	3.05	3.20	F	U2.60S	2.50	2.50	2.30	2.25
5	F	F	F	2.70	U2.75F	3.05	3.15	2.70	2.30	2.30	2.30	2.20
6	2.90	3.05	3.05	2.95	2.65	2.75	2.75	2.65	2.40	2.25	2.20	2.15
7	U3.05S	3.10	U3.05S	3.10	3.15	3.10	2.55	2.65	2.50	2.35	2.30	2.20
8	F	U3.05F	3.15	3.00	2.75	3.15	2.85	2.65	2.30	2.40	2.25	2.30
9	C	2.95	3.15	U3.05S	3.00	3.10	2.75	2.75	2.50	2.40	2.20	2.20
10	U3.05F	3.10	F	2.80	2.85	F	U3.40F	2.70	2.40	2.35	2.40	2.20
11	U2.65F	2.70	2.75	2.80	2.70	2.80	3.10	3.15	2.65	2.30	1.95	1.15
12	2.60	2.25	2.05	F	F	2.45F	F	2.80	2.60	C	C	C
13	3.05	2.95	2.90	2.85	3.05	3.40	3.30	2.95	2.55	2.20	2.35	2.30
14	J2.95S	3.00	U2.95S	2.95	U2.85S	U3.00S	3.20	3.05	2.95	2.80	2.50	2.25
15	2.65	2.75	U2.80S	U2.80S	3.00F	U3.00F	U2.85F	F	2.70	2.45	2.25	C
16	U2.65F	U2.85F	U2.85F	3.00	U3.10F	3.25	3.05	FS	2.60	2.40	2.35	2.30
17	F	3.05	J3.10R	3.20	3.25	3.15	2.95	2.70	2.65	2.40	2.50	2.55
18	2.95	3.00	3.10	3.00	2.90	3.05	3.00	2.70	2.55	2.60	2.40	2.35
19	2.80	3.00	3.05	3.00	3.10	U3.10S	3.30	U2.65SH	2.65	2.55	2.40	2.35
20	3.20	3.15	U3.15S	3.30	U3.20S	3.30	2.65	U3.00S	2.70	J2.45R	2.40	2.45
21	3.10	3.25	3.10	U2.85S	U2.55S	2.60	U3.00S	3.00	2.55	2.35	2.35	2.40
22	U3.10S	U3.20S	U3.10S	3.10	2.90	2.95	3.20	3.05	2.80	2.35	2.35	2.30
23	3.20	3.10	U3.00S	2.90	3.20	3.30	U3.00S	2.70	C	C	C	C
24	2.95	3.05	3.10	3.20	3.20	3.30	3.00	U2.95S	2.65	2.35	2.40	2.40
25	3.00	3.10	U3.05S	3.10	3.15	3.30	2.80	2.90	2.65	2.40	2.30	2.30
26	F	F	3.00	3.05	3.10	F	2.95	U2.90S	2.75	2.30	2.20	2.15
27	F	F	F	2.95	F	3.05	U2.80S	2.85	2.65	2.25	2.25	2.20
28	F	F	F	2.90	U3.10S	3.10	U2.60S	U2.70F	2.45	2.35	2.30	U2.30R
Count	19	22	22	25	26	26	26	25	27	25	25	24
Median	2.95	3.00	3.05	2.95	3.00	3.10	3.00	2.70	2.60	2.35	2.30	2.30
Mean	2.90	2.95	2.95	2.95	3.00	3.05	2.95	2.80	2.60	2.40	2.30	2.25

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds.

Characteristic : (M3000)F2

Unit : —

Month : February 1958

TABLE 22

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2'

Longitude : 77°3'

12	13	14	15	16	17	18	19	20	21	22	23	Date
2.20	2.10	2.10	2.20	2.20	U2.05S	U2.00R	F	F	F	F	C	1
C	C	C	C	C	2.10	2.15R	U2.00F	F	U2.10F	F	F	2
2.20	2.15	2.15	2.10	2.05	1.90	2.10	2.00	2.15	U2.25F	F	F	3
2.20	2.30	2.30	2.20	2.10	U2.10R	R	F	F	F	F	U2.30F	4
2.20	2.25	2.20	2.10	C	W	2.10	2.10	2.30	2.40	2.35	U2.50R	5
2.10	2.30	2.35	2.30	2.25	2.10	2.00	2.00	U2.05R	2.45	2.80	2.95	6
2.15	2.15	2.20	2.30	2.25	2.15	2.05	R	2.20	U2.35F	U2.40F	F	7
2.15	2.05	2.10	2.15	2.25	2.25	2.10	2.00	2.00	2.15	U2.25R	2.50	8
2.15	2.25	2.25	2.30	2.35	2.25	2.15	U2.10F	F	F	F	U2.85F	9
2.10	2.00	2.05	2.05	2.10	2.15	1.95	U1.90W	F	F	F	U2.70F	10
W	1.90	1.80	U1.90W	2.00	C	1.90	2.05	2.55	2.65	2.75	C	11
C	C	1.95	2.00	2.05	2.00	2.05	2.25	2.20	2.45	2.60	2.80	12
2.15	2.10	2.10	2.05	2.00	2.10	2.15	2.10	2.25	2.50	2.65	2.80	13
2.15	2.05	2.00	2.05	2.10	2.10	2.10	2.00	2.05	2.20	2.50	2.50	14
2.15	2.10	2.05	2.05	2.05	2.00	2.05	2.00	1.95F	F	F	F	15
2.30	2.30	2.30	2.30	2.30	2.20	J2.00R	U1.90W	F	U2.30F	F	F	16
2.55	2.50	U2.55S	2.55	U2.50S	2.35H	2.15H	U2.00H	U2.10FH	U2.45F	2.75	2.90	17
2.30	2.40	2.40	2.35	C	U2.00RH	2.10	C	U2.15F	2.50	2.70	U2.70S	18
2.35	2.45	2.50	2.50	U2.40S	2.20H	R	U2.00RH	R	2.40H	U2.80R	3.05	19
2.50	2.50	2.50	2.40	2.50	2.45	U2.25R	2.10	U2.25F	R	F	2.90	20
2.30	2.35	2.40	2.35	2.30H	2.15H	U2.05HS	2.05	2.05W	2.40	U2.75S	2.95	21
2.30	2.30	2.25	2.20	2.20	U2.20R	2.00	2.00	2.20F	2.40	2.70	3.10	22
C	C	C	2.20	2.25	2.20	U2.15S	2.05	2.10	F	U2.80S	2.85	23
2.25	2.25	2.20	2.15	U2.20R	U2.30S	2.20	2.15	2.10	U2.60R	U2.75R	U2.80R	24
2.25	2.20	2.20	2.25	2.30H	2.20	U2.15S	1.85	F	F	F	F	25
2.10	2.20	2.20	2.20	2.15	2.15	2.10	1.90	F	F	F	U2.70F	26
2.20	2.15	2.20	2.15	2.25	U2.05S	U2.10S	1.95	F	U2.10F	U2.55F	F	27
2.20	2.15	2.25	2.30	2.35	2.25	2.10	1.90	F	J	F	F	28
25	25	26	27	25	27	26	24	17	18	16	18	Count
2.20	2.20	2.20	2.20	2.25	2.15	2.10	2.00	2.15	2.40	2.70	2.80	Median
2.20	2.20	2.20	2.20	2.20	2.15	2.10	2.00	2.15	2.35	2.65	2.75	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds.

Characteristic : (M3000)F2

Unit : —

Month : February 1958

TABLE 22—contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.90F	2.95	2.85	2.80	3.15	3.20	2.65	2.60	2.45	2.40	2.20	2.20
2	F	2.65F	U2.60F	2.90	2.90	3.00	F	U2.70F	2.45	C	C	C
3	U3.00F	3.10	3.15	F	U3.20F	F	2.65	2.65	2.50	2.40	2.30	2.30
4	F	F	F	3.00F	3.05	F	F	2.60	2.45	2.45	2.30	2.25
5	F	U2.80F	U2.70F	2.65F	2.95	3.15	2.90	2.50	2.25	2.30	2.25	2.20
6	2.95	3.05	3.00	2.75	2.60	2.90	2.70	2.55	2.35	2.20	2.25	2.15
7	3.10	3.30	3.05	3.10	3.15	3.00	2.65	2.55	2.40	2.25	2.25	2.15
8	2.95F	3.10	3.00	2.90	3.00	3.20	2.80	2.50	2.30	2.40	2.40	2.30
9	2.85	3.05	3.00	U3.00S	3.05	3.30	2.85	2.65	2.35	2.35	2.30	2.20
10	3.00	F	2.80	2.80	2.95	F	2.90	2.55	2.30	2.30	2.30	2.15
11	2.65F	2.80	2.80	2.75	2.70	2.90	3.10	3.10	2.45	2.15	W	W
12	2.50	2.10	2.10	F	2.40F	2.30	2.60	2.70	2.40	C	C	C
13	3.00	2.95	2.95	2.90	3.20	3.40	3.00	2.75	2.30	C	2.30	2.20
14	3.05	3.00	3.00	2.80	U2.95S	3.15	3.05	3.00	2.85	C	2.35	2.15
15	2.70	2.80	2.80	2.80	3.00F	3.00	U2.95F	2.85	2.60	2.35	C	2.20
16	2.85	U3.00F	3.00	F	U3.15F	U3.25F	3.00	2.75	2.40	2.40	2.30	2.30
17	2.90	3.10	U3.15S	3.20	J3.15R	3.20	U2.85S	2.70	2.45	2.45	2.50	2.55
18	2.95	3.00	U3.15S	2.95	2.90	U3.25S	2.85	2.55	2.65	2.55	2.40	2.30
19	2.95	3.00	3.00	3.05	3.05	3.30	2.90	2.65	2.60	2.45	2.40	2.30
20	3.20	U3.20S	3.30	U3.30S	U3.20S	3.30	3.00	2.85	2.60	2.40	2.30	2.50
21	3.15	3.30	U3.00S	U2.75S	2.50	2.75	3.05	2.85	2.35	2.35	2.35	2.40
22	3.15	U3.10S	U3.00S	3.00	2.85	3.10	U3.10S	2.95	2.35	2.25	2.40	2.30
23	3.15	U3.00S	3.00	3.10	3.35	3.20	2.85	2.55	C	C	C	C
24	3.00	C	3.15	3.20	3.15	3.30	3.00	2.80	2.45	2.30	2.50	2.30
25	3.00	3.15	3.10	3.20	3.25	3.20	U3.00S	2.80	2.45	2.30	2.30	2.25
26	F	U2.95F	3.00	3.05	3.15	3.15	2.90	2.80	2.50	2.20	2.20	2.15
27	F	F	F	U3.00F	F	J3.15S	2.90	2.75	2.35	2.30	2.20	2.15
28	F	F	U3.00S	F	U3.10S	3.20	2.70	2.55	2.45	2.35	2.30	2.25
Count	22	23	26	24	27	25	26	28	27	23	24	25
Median	3.00	3.00	3.00	3.00	3.05	3.20	2.90	2.70	2.45	2.35	2.30	2.25
Mean	2.95	2.95	2.95	2.95	3.00	3.10	2.90	2.80	2.45	2.35	2.30	2.25

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds.

Characteristic : (M3000)F2

Unit : —

Month : February 1958

TABLE 22—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2.15 C	2.10 C	2.20 C	2.20 C	2.15 2.15	1.95H U2.15R	1.95 U2.05S	F U1.90F	F F	F F	F F	2.75 F	1
2.15	2.15	2.15	2.10	2.00	2.10	2.10	U1.95F	U2.15F	F	F	F	2
2.30	2.30	2.20	2.15	2.10	2.00	U2.00R	F	F	F	U2.30F	U2.35F	3
2.25	2.20	2.15	2.05	1.90	2.05	2.05	2.15	2.45	2.50	U2.55R	2.65	4
												5
2.25	2.30	2.30	2.25	2.15	2.05	U1.95S	U1.95F	S	2.60	2.90	2.95	6
2.15	2.20	2.25	U2.30R	2.20	2.10	2.00	R	2.30	F	F	F	7
2.05	2.15	2.10	2.20	2.30	U2.20R	2.00	2.00	2.05	2.15	2.35	2.65	8
2.20	2.20	2.30	2.35	2.30	2.20	2.05	F	F	F	F	U2.90F	9
2.05	2.00	2.05	2.10	2.15	U2.05S	U1.90S	1.90F	U2.10F	U2.25F	F	2.60F	10
W	1.85	W	1.90	2.00	1.90	1.85	2.35	2.70	U2.65S	2.70	2.80	11
C	1.95	2.00	2.05	2.05	2.05	2.05	2.15	2.30	2.55	2.70	2.95	12
2.10	2.10	2.10	2.00	2.00	2.15	2.10	2.10	2.30	2.60	2.75	2.85	13
2.00	2.00	2.00	2.05	2.10	2.10	2.05	2.00	2.10	U2.50S	2.40	2.50	14
2.10	2.05	2.05	2.05	2.05	2.00	2.05	2.00	F	F	F	F	15
2.30	2.30	2.30	2.30	2.25	2.10	J1.95R	U2.00F	F	F	F	U2.70F	16
2.50	2.55	U2.55S	U2.55S	2.45	2.25H	2.05H	U2.00FH	U2.25FH	2.65	2.80	3.00	17
2.35	2.40	2.45	2.30	C	U2.00RH	U2.15S	F	2.40	2.65	U2.65S	2.75	18
2.40	2.50	2.55	U2.45S	U2.30RH	J2.15RH	2.00H	U2.10FH	U2.20FH	U2.60RH	2.90	3.20	19
2.45	U2.45R	2.50	2.45	2.45	2.40	2.10	U2.20R	U2.30F	F	2.75	3.00	20
2.35	2.40	2.40	2.40	2.20H	2.10H	1.95H	2.05	2.15	U2.55RS	2.80	3.05	21
2.30	2.30	2.25	2.20	2.15	2.10	1.95	2.00	F	2.60	2.90	3.15	22
C	C	C	2.30	U2.25R	U2.25S	2.05	2.05	2.10F	U2.70S	2.75	2.90	23
2.20	2.20	2.15	2.15	U2.20S	U2.25S	2.15	U2.05R	2.20	2.55	U2.80R	2.90	24
2.25	2.20	2.25	2.25	2.25	2.15	U2.00S	F	F	F	U2.50F	F	25
2.20	2.15	2.20	2.25	2.20	2.10	U2.00S	U1.80F	F	F	F	F	26
2.15	2.15	2.20	J2.20S	2.15	U2.10S	U2.10S	U2.05F	F	2.20F	F	F	27
2.15	2.20	2.30	2.35	U2.35R	2.20	R	F	F	F	F	F	28
25	26	26	27	27	28	27	21	16	16	17	20	Count
2.20	2.20	2.20	2.20	2.20	2.10	2.05	2.00	2.20	2.60	2.75	2.90	Median
2.20	2.20	2.25	2.20	2.20	2.10	2.00	2.05	2.25	2.50	2.70	2.85	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds.

Characteristic : foF2

Unit : Mc

Month : March 1958

TABLE 23

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	U12.0F	F	C	C	C	C	5.3	9.7	12.2	U12.2R	12.8	12.7
2	10.6F	U10.4F	C	C	C	C	C	C	C	C	C	C
3	U10.7F	U11.2F	F	8.2F	F	4.1	5.0F	U9.3s	10.6	10.2	10.0	10.2
4	F	11.7	9.6F	8.6F	9.0F	U9.9F	C	12.6	12.5	12.4	C	C
5	11.4	U11.7F	11.5	9.9	9.2	7.6	U6.8s	10.8	12.8	13.8	12.8	12.7
6	13.4	13.2	10.8	8.8	6.7	5.5	6.7	10.2	12.4	13.3	14.3	13.5
7	13.5	12.7	11.0	10.1	U9.6s	9.4	8.4	11.1	13.2	12.4	11.8	11.7
8	13.6	12.9	9.5	9.2	9.5	8.0	6.1	10.9	13.6	14.7	14.3	13.5
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11	12.1	U11.9s	12.2	11.2	11.2	U9.2s	6.7	11.0	13.2	C	11.8	11.8
12	U11.0C	10.8	10.6F	U10.8F	11.4	11.6	U11.5s	13.3	14.2	C	13.4	12.6
13	12.1	U11.7s	10.7	10.3	9.8	9.7F	U10.2s	12.7	13.8	J13.3R	12.4	J12.0R
14	11.2	10.2	U9.4s	8.8	7.5	6.4	U7.1s	11.4	13.6	14.7	14.7	14.4
15	13.8	13.8	11.6	8.9	U7.2s	6.1	6.9	10.6	12.8	12.8	11.8	11.6
16	10.8	10.6	U9.7s	9.5	9.0	7.7	7.3	11.0	13.3	14.8	14.6	12.8
17	F	U11.6sF	11.8	10.7	8.3	6.5	U7.3s	Fs	U12.8F	19.6	12.5	11.8
18	12.8	U12.1s	10.9	J11.0s	11.3	10.4	8.2	U11.6s	13.2	U13.0R	12.8	11.7
19	U10.9s	U10.6s	U10.7s	10.7	10.7	11.4	12.8	13.3	14.0	13.9	13.5	12.8
20	13.5	13.0	11.3	9.4	8.8	8.3	8.5	12.2	13.6	12.8	11.9	11.8
21	12.0	11.0	U9.1s	7.5	6.5	6.4	7.6	11.0	13.0	12.3	11.8	12.0
22	13.6	U13.9R	12.7	12.6	11.4	U9.6F	8.7	11.9	13.2H	14.8	U14.6R	13.0
23	F	F	F	F	U5.4F	U3.6F	U6.2s	10.6	13.0	13.0	11.7	11.6
24	13.0	12.7	10.1	8.8	8.6	8.3	7.9	11.4	13.8	13.4	12.0	12.0
25	13.0	12.6	12.3	12.2	12.0	10.0	8.4	12.0	13.7	14.0	U12.8R	11.7
26	13.9	12.8	F	11.9	11.5	11.1	11.4	12.8	13.9	13.2	12.0	11.8
27	C	C	U9.6s	C	C	C	C	C	C	C	C	11.4
28	F	F	U9.8F	U8.5F	6.6	5.4	7.6	11.0	13.2	14.2	13.0	12.8
29	F	11.3	F	F	8.2	F	F	U11.8F	13.7	15.0	14.0	12.1
30	F	F	F	F	8.6	F	F	U11.4s	13.6	U14.0R	C	C
31	U11.8s	U11.8s	U12.0s	11.6	10.0	U9.4s	U10.3s	12.2	13.8	13.6	13.3	12.3
Count	22	24	22	23	25	24	24	26	27	25	25	26
Median	12.1	11.8	10.8	9.9	9.0	8.3	7.6	11.4	13.2	13.4	12.8	12.0
Mean	12.3	11.9	10.8	10.0	9.1	8.2	8.0	11.4	13.2	13.4	12.8	12.4

Sweep 1°0 Mc. to 25°0 Mc. in 27 Seconds.

Characteristic : foF2

Unit : Mc

Month : March 1958

TABLE 23
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
12.4	12.6	12.7	13.2	12.9	12.8	U11.8s	F	F	F	F	U9.0F	1
C	C	C	C	13.1	12.7	U11.9s	8.6	F	F	F	9.2F	2
10.8	11.2	11.8	12.5	13.0	13.4	13.0	11.8	F	F	U10.4F	U11.4F	3
12.3	12.7	13.4	13.9	U13.9R	13.4	U12.6R	10.0	F	U8.9F	U8.8F	U9.9F	4
11.6	11.8	13.2	13.8	13.9	13.8	13.1	12.6	12.8	U13.3R	13.8	13.8	5
12.8	12.6	13.3	13.9	13.8	U13.4R	U12.8R	J11.4R	F	F	F	13.1	6
12.0	12.2	12.6	13.0	13.4	13.6	13.0	11.4	U12.0F	12.8	14.0F	13.6	7
13.7	13.3	13.1	13.1	13.4	13.1	C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
C	11.7	11.9	12.3	12.4	12.5	12.3	10.7	10.1	11.4	U12.0s	U12.1F	10
C	U11.70	12.3	C	12.8	C	U11.0s	9.3	C	C	U9.7F	9.8	11
12.2	12.2	13.0	13.6	13.0	12.7	J12.0s	11.0	11.1	11.6	12.6	13.3	12
11.9	11.9	11.8	11.8	U11.5s	U11.7s	11.4	9.9	10.6	12.2	13.4	12.6	13
14.2	13.7	13.7	14.0	14.0	13.8	13.0	11.4	U11.4F	U12.4F	U11.3Fs	F	14
11.4	11.6	11.7	11.9	11.5	11.3	10.6	9.4	9.4	10.7	10.8	10.7	15
12.4	12.1	12.3	12.5	U12.1R	12.2	U11.6s	U10.1s	U9.2F	F	F	U11.0F	16
11.9	12.2	12.1	13.8	14.7	14.4	13.3	12.2H	U12.0Hs	13.3	U13.8R	13.4	17
11.2	11.9	J11.0s	12.1	11.8	U11.5s	11.0	9.2	U8.7F	U9.5s	U9.3s	10.4	18
12.9	13.0	13.1	13.3	U13.2R	12.9	U12.0s	U10.0R	U10.1F	U11.6s	U12.6R	U12.9R	19
11.4	11.6	11.7	11.8	12.1	12.3	11.6	9.9	9.2	U9.6s	12.2	13.3	20
12.3	12.7	13.0	13.6	J13.0R	13.0	12.7	U10.8R	F	F	12.3	U12.8F	21
12.8	U13.2R	13.8	14.2	14.8	15.0	14.8	U12.0F	F	F	F	F	22
11.7	11.8	12.2	12.4	U13.0R	13.5	12.8	U11.5R	U11.0F	11.6	F	13.3	23
11.5	12.0	12.4	12.8	12.1	U11.7s	11.0	U9.6s	U9.6s	11.2	12.6	13.0	24
11.1	11.5	12.3	13.0	12.8	13.2	R	U10.5R	F	F	R	12.2	25
11.6	11.6	12.0	12.1	C	U11.7s	11.1	9.8	F	8.5	U9.5s	R	26
13.9	13.7	13.6	13.7	C	C	C	C	F	F	F	F	27
11.4	11.4	11.2	11.6	12.0	U11.9s	U11.6s	U9.7s	F	F	F	F	28
12.0	12.4	12.8	13.0	12.5	12.2	U11.6s	U9.0F	F	F	F	F	29
C	C	C	C	C	C	U12.4R	10.5H	9.0	U11.4s	11.6	U11.8s	30
12.6	12.8	13.4	13.8	13.8	13.2	R	U10.4W	F	U10.8F	F	F	31
26	28	28	27	27	27	26	27	15	17	18	22	Count
12.0	12.2	12.6	13.0	13.0	12.9	12.0	10.4	10.1	11.4	12.1	12.4	Median
12.2	12.2	12.6	13.0	13.0	12.8	12.2	10.5	10.4	11.2	11.7	12.0	Mean

Sweep 1°0 Mc. to 25°0 Mc. in 27 Seconds.

Characteristic : foF2
Unit : Mc
Month : March 1958

TABLE 23—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	11.9F	C	C	C	C	4.3	7.7	11.1	12.8	12.8	12.6	12.5
2	10.0F	10.0F	C	C	C	C	C	C	11.0	C	C	C
3	U11.4F	U11.4F	F	U8.4F	5.3F	3.3	U7.4s	10.4	10.4	10.1	10.0	10.6
4	12.3	10.9	9.1F	F	F	C	U11.8s	12.9H	12.3	12.5	C	12.1
5	12.0	U11.7F	10.6	9.6	8.6	U7.2s	U9.5s	11.9	13.8	13.4	12.8	12.3
6	13.4	12.3	9.6	C	5.9	5.3	8.6	11.5	12.9	14.0	14.0	13.1
7	13.2	11.6	10.8	U9.5s	9.5	8.6	9.6	12.7H	12.7	12.0	11.8	11.8
8	13.8	11.2	9.3	9.3	9.1	5.7	8.8	12.4	14.3	14.6	13.7	13.6
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11	12.4	J12.0s	11.6	11.0	10.6	6.8	8.8	J12.2s	J13.0R	12.4	11.8	U11.7c
12	10.8	10.8	C	11.0	U11.6c	11.5	12.5	13.8	14.5	C	13.0	12.0
13	J12.0R	11.2	10.6	J10.2s	9.8	J9.3s	11.5	13.5	13.8	12.8	12.1	11.9
14	10.6	U9.6s	8.9	8.0	7.0	5.7	U9.4s	12.5	14.4	14.7	14.7	14.4
15	14.0	12.8	10.5	7.8	6.6	5.4	9.0	J11.8s	13.0	12.3	11.8	11.6
16	10.9	10.1	U9.6s	9.2	8.5	6.5	U9.3s	12.3	14.4	15.0	U13.8R	12.4
17	U11.4F	FS	11.6	9.6	U7.2s	5.8	FS	FS	13.6	12.9	11.9	11.7
18	12.6	11.3	11.0	J11.0s	11.2	8.5	U10.0s	12.5	13.5	13.1	12.3	11.3
19	10.6	10.7	10.7	10.8	10.6	12.3	13.0	13.6	U14.0R	13.8	13.2	12.7
20	13.7	12.4	10.2	9.0	8.6	U7.5s	10.5	13.7	13.4	12.1	11.8	11.5
21	11.5	10.1	8.4	6.6	6.5	6.6	U9.3s	12.3	12.9	J12.0R	11.8	12.3
22	13.7	13.0	12.8	12.0	F	F	10.6	12.6	14.0	14.8	13.6	12.7
23	F	U10.0F	U8.2F	F	F	3.0	9.0	12.0	13.4	11.8	11.5	11.6
24	13.0	11.0	U9.4s	8.6	8.5	U7.2s	9.8	13.0	14.0	12.5	12.0	11.8
25	12.9	U12.1R	12.6	12.0	U12.0s	8.0	10.5	13.0	U14.0R	C	12.0	11.3
26	13.5	12.4	12.0	U11.8s	11.4	10.4	12.2	13.4	14.0	12.5	11.6	11.7
27	C	C	C	C	C	C	C	C	C	C	15.7	14.6
28	F	F	F	7.9	5.8	5.3	9.6	U12.2s	13.8	14.0	12.4	11.7
29	U11.5F	10.5	F	U8.6F	7.6	F	U10.5Fs	12.8	14.6	14.8	C	12.0
30	F	F	F	F	8.0F	F	F	12.5	13.8	13.7	C	C
31	U11.8s	U11.8s	11.6	11.1	9.8	U9.4s	11.2	13.3	J14.0R	13.6	C	12.2
Count	25	24	21	22	23	23	25	26	28	25	24	27
Median	12.0	11.2	10.6	9.6	8.6	6.8	9.6	12.5	13.8	12.9	12.2	12.0
Mean	12.2	11.3	10.4	9.7	8.7	7.1	10.0	12.5	13.4	13.1	12.6	12.2

Sweep 1°0 Mc. to 25°0 Mc. in 27 Seconds.

Characteristic : foF2

Unit : Mc

Month : March 1958

TABLE 23—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
12.3 C	12.7 C	13.0 C	13.2 UI2.9R	13.0 13.0	UI2.8R 12.4	UI1.4R UI1.1R	F U8.4F	F F	UI0.4F U8.5F	F F	UI0.2F F	1
10.9	11.5	12.1	R	13.4	13.2	12.6	UI1.0F	F	F	UI0.4F	F	2
12.4	12.9	14.0	13.9	13.8	13.0	11.5	F	U9.0F	F	U9.0F	11.0	3
11.2	12.6	13.4	13.8	13.9	13.6	12.7	12.6	UI2.6R	13.8	14.0	13.7	4
12.8	13.0	13.8	13.9	13.6	UI3.2R	UI1.8R	UI0.9F	F	F	UI2.9F	13.4	5
11.8	12.4	12.8	13.1	13.4	13.4	12.2	11.4F	UI2.4F	UI3.2F	13.9	13.3	6
13.7	13.2	13.1	13.0	13.3	C	C	C	C	C	C	C	7
C	C	C	C	C	C	C	C	C	C	C	C	8
11.5	11.8	11.9	12.3	12.4	12.4	11.6	10.1	10.8	UI2.0S	12.0	12.4	9
C	UI1.8C	C	C	C	C	10.0	9.0	10.6	UI0.0C	UI0.0C	10.7	10
11.9	12.7	13.4	13.4	J13.0R	J12.8R	11.4	11.0	11.4	UI1.6S	13.1	12.5	11
11.9	12.0	11.8	11.8	UI1.6S	UI1.6S	10.8	9.8	11.3	UI2.6R	13.4	UI1.6S	12
14.1	13.7	13.8	14.1	13.8	13.7	12.3	10.8F	UI1.4F	S	F	J12.0R	13
11.6	11.6	11.7	11.9	11.5	10.8	10.1	9.0	10.3	10.8	10.8	10.7	14
12.2	12.3	12.4	12.3	12.4	UI1.9S	11.1	U9.0F	F	UI0.7F	UI1.5F	F	15
12.0	12.4	13.2	14.3	UI4.9S	13.8	12.7H	UI1.7HS	UI1.8HS	UI3.7R	14.0	13.2	16
11.1	11.6	12.0	11.9	11.6	11.4	UI0.0S	U8.8R	U9.3F	U9.6S	10.0	10.6	17
12.9	13.2	13.1	UI3.2R	13.1	12.5	J11.1S	UI0.2F	10.8	12.3	12.6	13.4	18
11.6	11.7	11.8	12.0	12.2	UI2.0S	10.9	9.3	9.2	11.3	13.1	12.6	19
12.5	13.0	13.4	UI3.1R	13.2	13.0	UI1.9S	U9.6S	F	F	F	UI3.0R	20
12.9	13.4	14.0	14.3	15.0	UI5.1S	13.8	F	F	F	F	UI3.4F	21
11.7	11.9	12.4	B	13.6	13.0	12.2H	F	UI1.2F	S	UI2.6F	13.2	22
11.7	12.2	12.7	12.4	11.9	UI1.6S	10.5	U9.4F	10.5	UI1.8S	13.6	13.0	23
11.3	11.8	12.7	C	12.8	UI3.0R	UI1.6R	8.9	F	12.8	F	13.1	24
11.5	11.8	12.0	12.2	C	11.4	10.5	8.5	U8.0F	8.6F	10.5	C	25
13.6	13.7	13.7	13.2	C	C	C	F	F	F	C	F	26
11.4	11.2	11.5	11.8	12.0	UI1.8S	11.1	U8.5F	F	F	F	F	27
12.0	12.6	12.9	12.8	12.2	UI1.8S	UI0.7W	F	F	F	F	F	28
C	C	C	C	C	12.6	11.4	UI0.0R	9.0	11.4	R	UI1.6S	29
12.6	13.2	13.8	R	13.4	UI3.0R	UI1.8S	U9.6F	UI0.2W	F	F	F	30
27	28	27	24	26	27	28	23	18	18	18	21	Count
11.9	12.4	12.9	13.0	13.0	12.8	11.4	9.6	10.7	11.5	12.6	12.6	Median
12.1	12.4	12.8	13.0	13.0	12.6	11.5	9.9	10.5	11.4	12.1	12.3	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : March 1958

TABLE 24
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								G	L	B	B	L
2								L	C	C	C	C
3								L	L	L	L ^H	L
4								L	L	L	C	C
5								L	L	L	L	L ^H
6								L	L	L	L	L
7								L	L	L	L	L ^H
8								L	L	L	L	L
9								C	C	C	C	C
10								C	C	C	C	C
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L ^H
14								L	L	L	L	L ^H
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L ^H
27								C	C	C	C	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	C	C
31								L	L	L	L	L
Count							
Median							
Mean							

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fo F1

Unit : Mc

Month : March 1958

TABLE 24
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L G L L _H L _H	L C L L _H L _H	L C L L _H L _H	L C L L _H L _H	L L L L _H L _H	L L L L _H L _H							1
L _H L L C C	L L L C L	L L L C L	L L L C L	L L L C L	L L L C L							2
L L L L _H L	L L _H L L L	L L L L _H L	L L L L _H L	L L _H L L L	L L L L L							3
L _H L _H L L _H B	L L _H L _H L B	L _H L L _H L _H L	L _H L L _H L _H L	L L L L _H L	L L L L L							4
L L L _H L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							5
L L _H L _H L C	L L _H L _H L C	L L _H L _H L C	L L _H L _H L C	L L L L C	C L L C							6
L	L	L	L	L	L							7
												8
												9
												10
												11
												12
												13
												14
												15
												16
												17
												18
												19
												20
												21
												22
												23
												24
												25
												26
												27
												28
												29
												30
												31
..							Count
..							Median
..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

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Characteristic : foF1

Unit : Mc

Month : March 1958

TABLE 24—*contd.*

* Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	B	L	L
2							C	C	C	C	C ^{LH}	C
3								L	L	L ^{LH}	L ^{LH}	L
4							L	L	L	L	L ^{LH}	L ^{LH}
5												
6								L	L	L	L	L ^{LH}
7							L	L	L	L	L ^{LH}	L ^{LH}
8								L	L	L	L	L
9							C	C	C	C	C	C
10							C	C	C	C	C	C
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L ^{LH}	L ^{LH}
15								L	L	L	L	L
16								L	L	L	L	L ^{LH}
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27							C	C	C	C	L	L ^{LH}
28							L	L	L	L	L	L
29								L	L	L	C	L
30							L	L	L	L	C	C
31								L	L	L	C	L
Count						
Median						
Mean						

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

196

Characteristic : foF1

Unit : Mc

Month : March 1958

TABLE 24—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L C L L _H L _H	L C L L _H L _H	L C L L _H L _H	L L B L L	L L L								1
L _H	L	L	L	L								2
L	L	L	L	L								3
L	L	L	L	L								4
C	C	C	C	C								5
L	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	L								11
L	L	L	L	L								12
L	L	L	L	L								13
L	L	L	L	L								14
L	L	L	L	L								15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
L	L	L	L	L								31
..	..	..	..	..								Count
..	..	..	..	..								Median
..	..	..	..	..								Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE
Unit : Mc
Month : March 1958

TABLE 25
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								2.7 C	A C	B C	B C	B C
2								A	A	A	A	A
3								2.7	A	A	A	A
4								2.7H	A	A	A	A
5												
6								A	A	R	A	A
7								2.7H	A	A	A	A
8								2.8	A	A	A	A
9								C	C	C	C	C
10								C	C	C	C	C
11								2.8	A	A	A	A
12								2.9	A	A	A	A
13								2.7	A	A	A	A
14								2.8	U3.3A	A	A	A
15								2.8	A	A	A	A
16								2.9H	U3.4A	A	A	A
17								U2.6R	A	A	A	A
18								U2.9A	A	A	A	A
19								A	A	A	A	A
20								A	A	A	A	A
21								U2.7A	A	A	A	A
22								2.7	B	A	A	A
23								A	A	A	A	A
24								U2.9R	A	B	A	A
25								2.8	A	C	A	A
26								A	A	A	A	A
27								C	C	C	C	C
28								A	A	A	A	A
29								3.0	A	A	A	A
30								3.1	A	A	A	A
31								3.0	A	B	A	A
Count								20	2	..	..	..
Median								2.8	..	..	..	..
Mean								2.8	..	..	..	..

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc

Month : March 1958

TABLE 25

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° E

Longitude : 77.5° N

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A	A							1
C	C	A	C	B	A							2
A	A	A	A	A	A							3
A	A	4.0	A	A	R							4
A	4.0	4.0	3.9	3.3	R							5
A	B	4.1	3.9	3.6	A							6
A	A	A	A	B	R							7
A	A	A	A	R	R							8
C	A	A	A	C	C							9
C	A	A	A	R	R							10
A	A	A	A	A	F							11
A	A	4.0	A	A	A							12
A	A	A	A	A	A							13
A	A	A	A	A	2.8							14
A	A	A	A	A	A							15
A	A	A	A	A	U2.7A							16
A	A	A	A	B	A							17
A	A	A	A	A	A							18
B	A	A	A	A	A							19
B	B	B	A	B	A							20
A	A	A	A	A	A							21
A	A	U4.1A	A	3.4	B							22
A	A	A	B	B	A							23
A	B	A	A	B	A							24
A	A	A	A	B								25
U4.3A	A	B	A	A	C							26
A	A	A	A	C	B							27
A	A	A	A	A	A							28
A	B	A	A	C	C							29
C	C	C	C	C	C							30
B	B	A	A	A	A							31
I	I	5	2	3	2							Count
..	..	4.0	..	..	..							Median
..	..	4.0	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE
Unit : Mc
Month : March 1958

TABLE 25—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2.3	A	A	B	B	B
2							C	C	A	C	C	C
3							A	A	A	A	A	A
4							A	A	A	A	A	A
5							2.2H	3.0	A	A	A	A
6							A	A	A	A	A	A
7							2.2H	A	A	A	A	A
8							A	3.2	A	A	A	A
9							C	C	C	C	C	C
10							C	C	C	C	C	C
11							U2.3A	A	A	A	A	A
12							A	A	U3.7R	A	A	A
13							2.4H	U2.8A	A	A	A	A
14							2.3	3.1	A	A	A	A
15							2.3	A	A	A	A	A
16							2.5	3.1H	A	A	A	A
17							A	A	A	A	A	A
18							2.3	A	A	A	A	A
19							A	A	A	B	B	B
20							A	A	A	B	B	B
21							2.3H	A	A	A	A	A
22							A	3.0	A	A	A	A
23							U2.4R	U3.2A	A	A	A	A
24							A	A	B	A	A	A
25							3.2	A	A	A	A	C
26							2.4	A	A	A	A	A
27							C	C	C	C	C	C
28							2.6	A	A	B	A	A
29							2.4	A	A	A	C	A
30							2.5	U3.6A	A	A	C	C
31							2.6	A	A	A	C	B
Count							16	9	1	..	..	..
Median							2.4	3.1	..	..	..	..
Mean							2.4	3.1	..	..	..	..

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc

Month : March 1958

TABLE 25—*contd.*

Ionospheric Data

75.0° Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	B	A	A								1
C	C	C	B	A								2
A	A	4.0	B	A								3
4.2	4.0	A	A	A								4
4.2		3.9	R	A								5
A	4.1	4.1	3.9	A								6
A	A	A	R	B								7
A	A	A	A	A								8
C	C	A	C	C	C							9
B	A	A	R	R								10
A	A	A	A	A								11
A	4.2	4.0A	A	A								12
A	A	A	A	3.0								13
A	A	A	A	A								14
A	A	A	A	A								15
A	A	A	A	A								16
A	A	3.7R	B	R								17
A	A	A	A	A								18
B	B	B	A	A	A							19
B												20
A	A	A	B	A								21
A	A	A	3.5A	B								22
A	A	A	B	B								23
A	A	A	A	R								24
A	A	A	B	C								25
A	C	A	B	A								26
A	A	A	A	C								27
A	A	A	A	A								28
A	B	A	A	A								29
C	C	C	C	C								30
B	A	A	B	A								31
2	3	5	2	1	..							Count
..	..	4.0	..	..	..							Median
..	..	3.9	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : March 1958

TABLE 26
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2.8	2.8	C	C	C	C	C	G	10.0	B	12.0	12.0
2			C	C	C	C	C	C	C	C	C	C
3								8.6	10.2	10.6	11.6	12.0
4								7.0	9.0	10.8	C	C
5								G	8.8	10.8	12.0	13.0
6								7.0	8.4	G	12.0	12.8
7								G	9.6	11.4	12.0	12.6
8		4.0						G	10.4	10.8	11.6	12.0
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11								G	10.8	11.0	11.8	11.8
12								3.1	8.6	10.8	12.4	12.0
13								G	8.4	10.5	12.0	12.2
14								G	9.0	10.6	11.8	11.6
15								6.4	9.0	10.8	11.6	12.0
16								G	U7.3s	10.2	12.3	12.4
17								G	10.8	12.0	12.2	12.3
18								U6.7s	U10.2s	11.0	12.0	12.0
19								U9.0s	10.2	11.0	12.4	12.2
20							U4.2s	U7.0s	10.6	11.3	12.0	12.0
21								U9.0s	10.6	11.0	12.8	12.1
22								G	8.0	11.0	12.1	12.0
23								7.0	8.6	10.0	11.2	12.0
24								G	9.0	10.6	11.4	11.4
25								G	9.0	10.0	11.6	11.4
26								6.0	U9.2s	11.2	11.4	12.0
27	C	C		C	C	C	C	C	C	C	C	11.8
28	10.0	7.0						6.6	8.4	11.0	12.0	12.0
29	3.8							G	11.0	11.0	12.2	12.0
30								3.8	10.0	11.4	C	C
31								7.3	9.6	10.0	12.0	11.4
Count .	3	3	..	..	..	..	1	27	27	26	25	26
Median .	..	..	..	..	..	..	..	6.8	9.2	10.8	12.0	12.0
Mean .	..	..	..	..	..	..	..	4.5	9.4	10.8	12.0	12.0

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : March 1958

TABLE 26
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
12.0	11.6	11.4	11.0	8.4	7.0							1
C	C	C	C	8.0	8.0							2
12.4	11.8	12.0	11.0	B								3
11.8	11.4	G	10.4	8.0	8.0							4
12.0	G	G	G	G	7.0			3.0				5
12.0	9.8	G	G	G	7.0							6
12.0	11.6	10.6	8.0	G	8.0							7
12.2	12.0	11.8	9.4	8.0		C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
C	12.2	12.2	11.2	8.6								10
11.8	11.6	11.4	11.4	8.4	7.6							11
12.0	11.6	6.8	11.0	8.6	7.0							12
11.8	11.6	11.6	11.4	8.2	6.8							13
12.0	11.8	11.6	11.0	8.4	7.0					3.1		14
12.0	12.0	11.8	10.8	9.0	8.0							15
12.7	12.4	11.9	11.7	8.4	7.3							16
12.2	12.0	11.6	10.8	G	8.0					3.6		17
12.2	12.2	12.5	12.2	9.2	8.45							18
11.7	11.9	11.1	11.0	8.8	8.8							19
11.2	12.1	11.6	12.0	10.1	8.08							20
12.2	12.1	12.2	12.0	8.2	7.6							21
12.0	11.8	11.6	10.8	8.4	7.0							22
12.0	11.0	11.0	B	B	B							23
11.4	11.0	11.4	11.0	8.4	8.0							24
12.0	11.6	10.6	7.0	7.2	7.0						3.8	25
12.2	11.8	11.0	11.2	8.6	8.0					4.0		26
11.6	11.8	11.8	11.8	C	C	C	C					27
11.6	12.0	12.4	11.3	8.2	8.0							28
12.4	11.4	11.8	11.8	10.0	8.0							29
C	C	C	C	C	C							30
10.8	9.8	12.4	10.2	8.4	8.0							31
27	28	28	27	26	24	..	..	1	..	3	1	Count
12.0	11.8	11.6	11.0	8.4	8.0	..	..	..	..	..	..	Median
11.9	11.6	11.4	10.9	8.5	7.7	..	..	..	..	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : March 1958

TABLE 26—contd.

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.6	C	C	C	C	C	G	9.0	10.6	B	12.0	12.0
2			C	C	C		C	C	8.8	C	C	C
3						C		U10.4s	9.7	11.6	12.0	12.2
4							G	8.6	8.0	12.0	C	11.0
5								6.6	10.6	12.0	12.0	11.8
6				C			6.0	10.4	10.6	12.2	12.2	12.6
7							G	8.6	11.0	12.0	12.0	12.2
8	3.6							G	11.0	12.0	12.2	12.0
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11								8.5	10.6	11.8	11.6	11.8
12							3.2	8.8	G	11.6	12.0	12.0
13							G	6.8	9.3	11.6	12.2	12.4
14							G	G	9.8	12.0	12.2	11.6
15							G	9.0	11.0	12.2	12.1	11.4
16							G	G	10.0	12.1	12.2	12.3
17								8.0	10.9	12.2	12.0	12.6
18							G	U9.0s	10.6	11.4	12.5	11.8
19								U9.6s	10.1	11.7	12.0	12.1
20							U6.4s	U10.0s	11.0	12.2	12.8	12.0
21							G	U10.2s	11.0	12.3	12.4	12.4
22								G	9.6	12.4	12.4	12.0
23								8.2	9.8	11.6	11.1	12.0
24							G	7.8	9.0	11.4	11.6	11.6
25							6.2	6.8	9.2	12.0	11.6	11.6
26			C	C	C	C	G	8.2	10.0	12.0	12.0	12.0
27	C	C					C	C	C	C	12.2	11.8
28	9.8	6.2					G	9.2	10.6	11.0	12.0	11.6
29							U5.7s	8.8	10.7	12.0	C	12.0
30	2.4						3.8	8.6	10.4	11.6	C	C
31							G	8.8	10.0	11.6	C	11.3
Count	4	1	..	..	..	..	19	27	28	26	24	27
Median	..	..	..	..	..	..	..	8.6	10.2	12.0	12.0	12.0
Mean	..	..	..	..	..	..	5.2	8.7	10.1	11.9	12.0	11.9

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : March 1958

TABLE 26—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11.6 C	11.6 C	11.0 C	8.4 G	8.0 8.0								1
12.4 G	12.0 G	11.0 10.8	B 8.4	7.5 8.0					3.2			2
G	11.4 G	G	G	8.1								3
												4
12.2	11.0	G	G	8.4								5
12.2	12.0	8.6	6.6	G								6
12.0	12.0	12.0	8.0	7.8	C	C	C	C	C	C	2.6	7
C	C	C	C	C	C	C	C	C	C	C	C	8
12.0	12.0	11.8	9.0	8.4								9
												10
11.8	11.5	11.4	9.2	8.4	6.8							11
11.6	8.2	8.2	8.8	8.0	6.5							12
12.2	11.2	11.4	9.2	6.9	5.8							13
12.4	11.8	11.2	8.4	8.2	u6.08							14
11.6	12.0	11.6	8.7	8.4	6.0				3.5	3.4	6.2	15
12.4	12.1	11.8	9.0	8.1						3.1		16
12.1	12.1	7.0	7.2	8.2								17
12.0	11.9	12.1	9.9	8.8	u6.58							18
12.0	11.2	11.2	9.0	8.6								19
12.0	12.3	12.0	9.6	u9.68	6.5							20
12.3	12.1	12.4	B	8.0								21
12.0	11.0	11.0	9.8	G								22
12.0	11.4	10.6	B	B								23
11.4	11.6	11.4	8.6	8.0								24
11.4	11.0	10.2	7.6	C							2.8	25
11.8	C	11.6	8.6	8.0								26
12.0	11.6	12.0	8.0	C	C					C	4.0	27
12.0	11.6	12.0	9.8	8.6	6.8						2.8	28
11.6	11.8	11.8	11.2	8.5	5.8							29
C	C	C	C	C								30
11.2	10.8	10.0	8.5	8.6								31
28	27	28	26	26	9	..	..	..	2	2	5	Count
12.0	11.6	11.3	8.6	8.1	6.5	..	..	..	..	..	2.8	Median
11.9	11.5	11.0	8.8	8.2	6.3	..	..	..	..	..	3.7	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : March 1958

TABLE 27

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2.4	2.2	C	C	C	C			3.4			
2			C	C	C	C	C	C	C	C	C	C
3								2.7	3.4	4.0	4.2	4.5
4							C	2.8	3.4	4.0	C	C
5									3.4	4.0	4.1	4.3
6								2.8	3.5		4.3	4.4
7									3.4	4.1	4.2	4.4
8		2.2							3.6	4.0	4.3	4.5
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11									3.6	4.2	4.4	4.6
12									3.6	4.0	4.2	4.6
13									3.5	4.0	4.2	4.4
14										4.0	4.4	4.4
15								2.9	3.5	4.0	4.3	4.4
16									3.5	3.9	4.3	4.4
17									3.5	4.0	4.3	4.4
18								2.9	3.4	3.9	4.2	4.3
19								2.9	3.5	4.0	4.2	4.5
20								2.9	3.6	4.0	4.3	
21								3.0	3.5	4.1	4.3	4.5
22										4.0	4.3	4.6
23								3.0	3.6	4.1	4.4	4.6
24									4.0		4.6	
25									3.7	4.2	4.2	
26								3.0	3.6	4.1	4.5	4.6
27	C	C		C	C	C	C	C	C	C	C	4.6
28	3.0	2.7						3.0	3.7	4.2	4.4	4.6
29	2.2								3.7	4.1	4.4	4.6
30								3.6	3.8	4.2	C	C
31									3.8		4.6	4.6
Count	3	3	..	..	..	..	..	12	25	23	24	22
Median	..	..	..	..	..	..	..	2.9	3.5	4.0	4.3	4.5
Mean	..	..	..	..	..	..	..	3.0	3.6	4.1	4.3	4.5

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : March 1958

TABLE 27

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
4.6	4.5	4.2	4.0	3.6	3.0							1
C	C	C	C	3.6	2.9							2
4.5	4.4	4.1	3.9									3
4.4	4.3		3.9	3.6	2.9							4
4.4					3.0			2.2				5
4.5					2.9							6
4.5	4.3	4.1	3.9		3.0							7
5.0	4.5	4.4	4.0	3.6	C	C	C	C	C	C	C	8
C	C	C	C	C	C							9
C	4.6	4.4	4.0	3.7								10
4.6	4.5	4.4	4.0	3.7	3.0							11
4.5	4.3		4.0	3.6	3.0							12
4.6	4.5	4.2	3.8	3.7	3.0							13
4.5	4.4	4.2	3.9	3.6	3.0					2.4		14
4.6	4.4	4.1	4.0	3.6	2.9							15
4.5	4.4	4.2	3.9	3.4	2.8					2.8		16
4.4	4.3	4.1	3.9		3.0							17
4.5	4.3	4.1	3.8	3.5	2.9							18
	4.4	4.2	3.9	3.5	3.0							19
			4.1		3.0							20
4.5	4.3	4.3	3.9	3.6	3.0							21
4.6	4.6	4.4	4.0									22
4.6	4.6	4.5										23
4.6		4.4	4.0		3.0							24
4.6	4.5	4.3	4.0								2.3	25
4.6	4.6		4.1	C	3.0							26
4.6	4.4	4.3	4.0	C	C	C	C					27
4.8	4.4	4.4	4.0									28
4.8		4.6	4.0	3.8	3.0							29
C	C	C	C	C	C							30
		4.6	4.0	3.8	3.0							31
24	22	22	25	16	21	..	..	1	..	2	1	Count
4.6	4.4	4.3	4.0	3.6	3.0	..	..	..	..	..	..	Median
4.6	4.4	4.3	4.0	3.6	3.0	..	..	..	..	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs
Unit : Mc
Month : March 1958

TABLE 27—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.2	C	C	C	C	C	C	3.1	3.7	C	C	C
2			C	C	C			C	3.8			
3								3.1	3.7	4.1	4.5	4.5
4								3.0	3.7	4.0	C	4.4
5								3.1	3.6	4.0	4.3	4.4
6							2.4	3.2	3.7	4.0	4.3	4.5
7								3.2	3.7	4.1	4.3	4.5
8	2.2								4.0	4.1	4.4	4.7
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11								3.2	4.0	4.2	4.4	4.5
12							2.6	3.4		4.3	4.4	4.5
13								3.2	3.8	4.0	4.3	4.5
14									3.8	4.0	4.4	4.6
15								3.2	3.7	4.2	4.4	4.5
16									3.7	4.0	4.5	4.5
17								3.2	3.7	4.1	4.4	4.5
18								3.1	3.7	4.0	4.3	4.4
19								3.1	3.6	4.0	4.3	4.5
20							2.7	3.2	3.8			
21								3.3	4.1	4.2	4.4	4.6
22									4.0	4.2	4.6	4.6
23								3.2	3.8	4.2	4.6	4.6
24								3.7		4.5	4.6	4.8
25									4.0	4.2	4.8	C
26								3.4	3.9	4.4	4.6	4.7
27	C	C	C	C	C	C	C	C	C	C	4.4	4.6
28	3.0	2.8						3.4	4.0		4.4	4.8
29								3.4	4.0	4.2	C	4.6
30	1.9						3.0	3.6	4.1	4.3	C	C
31								3.6	4.0	4.6	C	
Count	4	1	..	..	..	..	4	22	26	24	22	23
Median	..	..	..	..	..	..	..	3.2	3.8	4.2	4.4	4.5
Mean	..	..	..	..	..	..	..	3.3	3.8	4.2	4.4	4.6

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : March 1958

TABLE 27—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.6 C	4.4 C	C	3.8	3.2 3.4								1
4.5	4.2 4.2	4.0 4.0	3.8	3.2 3.2					2.4			2
												3
												4
												5
4.5 4.4 4.8 C	4.4 4.4 4.5 C	4.1 4.0 C	3.9 C	3.3 C	C C	C C	C C	C C	C C	C C	2.4 C C	6
	4.5	4.2	4.0	3.3								7
												8
												9
												10
4.6 4.6 4.5 4.5 4.6	4.4 4.2 4.4 4.3	4.2 4.3 4.0 4.1	4.0 4.0 4.0 3.8	3.4 3.3 3.2 3.2					2.3	2.3	2.2	11
					2.5							12
4.5 4.4 4.4	4.2 4.2 4.2	4.0 4.0 4.9	3.7 3.8 3.7	3.0 3.2 3.2						2.9		13
		4.0	3.7	3.2								14
		4.6	4.0	3.4	2.6							15
												16
4.4 4.8 4.6 4.6 4.8	4.2 4.4 4.5 4.6 4.6	4.1 4.2 4.2 4.2 4.1	3.8 4.0	3.2 3.4								17
												18
												19
												20
												21
												22
												23
												24
												25
C 4.5 4.7 4.8 C	4.7 4.4 4.5 C	4.0 4.2 4.4 C	4.1 4.0 4.0 C	3.4 C 3.3 3.4 C	C	C				C	2.5 2.2	26
												27
												28
												29
												30
	4.4	4.2		3.4								31
21	24	25	18	23	2	..	..	..	2	2	4	Count
4.6	4.4	4.1	4.0	3.3	..	..	..	..	..	..	..	Median
4.6	4.4	4.1	3.9	3.3	..	..	..	..	..	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : March 1958

TABLE 28
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2.2	1.9	C	C	C	C	1.7	2.1	2.2	7.0	5.3	4.6
2	1.8	2.0	C	C	C	C	C	C	C	C	C	C
3	1.6	1.7	1.7	1.6	1.6	1.6	2.4	2.0	2.3	2.8	3.0	3.2
4	2.0	2.1	2.4	1.7	2.2	2.1	C	2.2	2.4	3.0	C	C
5	1.8	1.8	1.6	1.5	1.6	1.6	1.7	1.8	2.1	2.6	2.8	3.0
6	2.2	1.7	2.0	1.9	2.0	1.8	1.7	2.2	2.6	2.9	3.0	3.1
7	2.0	2.2	1.8	1.9	1.7	2.2	1.8	1.8	2.2	2.7	2.7	3.0
8	1.9	2.0	1.9	2.5	1.7	2.2	1.6	2.2	2.5	3.0	3.2	3.8
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11	1.9	1.6	1.7	1.8	1.8	2.2	1.8	2.2	2.8	3.2	3.4	3.4
12	2.3	2.2	2.3	2.2	1.8	2.4	1.8	2.2	2.4	2.8	3.0	3.2
13	2.2	2.0	1.6	1.8	1.9	1.8	1.8	1.6	2.4	2.8	2.8	3.1
14	2.2	1.8	1.8	1.7	1.7	1.8	1.9	2.3	2.6	3.0	3.2	3.2
15	2.2	1.8	1.7	2.0	2.0	1.7	2.1	2.0	2.4	2.8	2.9	3.1
16	2.1	2.1	2.1	2.4	2.1	2.3	1.9	2.0	2.4	2.9	3.1	3.2
17	2.0	2.2	2.0	1.9	2.0	2.2	1.9	2.2	2.4	2.9	3.1	3.2
18	1.8	2.2	2.0	1.6	2.1	1.8	1.9	2.2	2.4	2.6	2.9	3.0
19	2.4	2.0	1.9	2.1	1.5	1.9	2.1	2.2	2.7	3.0	3.0	3.3
20	2.5	2.3	2.2	1.8	2.0	2.3	1.9	2.2	2.4	3.0	3.6	3.4
21	1.9	1.7	1.9	1.9	1.8	1.7	1.9	2.1	2.5	3.1	3.0	3.2
22	2.1	2.2	2.0	2.0	1.9	2.2	2.0	2.5	3.9	3.0	3.0	3.6
23	2.6	2.0	1.8	2.0	2.2	2.1	2.0	2.0	2.5	2.9	3.0	3.6
24	2.0	1.8	1.9	2.1	1.9	1.9	2.3	2.3	3.4	5.2	3.8	5.0
25	2.2	2.2	2.2	2.2	2.4	2.3	2.0	2.5	2.8	C	3.4	5.1
26	1.8	1.8	2.2	2.2	1.8	1.7	2.0	2.0	2.4	3.2	3.4	3.3
27	C	C	2.0	C	C	C	C	C	C	C	C	3.6
28	2.0	1.9	3.0	2.3	2.4	1.8	2.3	2.0	2.5	3.4	3.4	3.4
29	1.8	2.0	2.0	1.8	1.9	2.0	2.1	2.4	2.5	3.0	3.2	3.7
30	2.0	1.9	2.1	2.0	2.0	1.9	2.1	2.3	3.0	3.3	C	C
31	2.6	2.6	2.2	1.9	2.4	2.1	2.6	2.6	2.5	4.5	3.6	3.4
Count	28	28	27	26	26	26	26	27	27	26	25	26
Median	2.0	2.0	2.0	1.9	1.9	2.0	1.9	2.2	2.5	3.0	3.1	3.3
Mean	2.1	2.0	2.0	2.0	1.9	2.0	2.0	2.2	2.6	3.2	3.2	3.5

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : March 1958

TABLE 28
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
3.4	3.3	3.0	2.8	2.6	2.2	1.8	1.6	2.2	2.0	1.8	2.1	1
C	C	C	C	3.0	2.2	2.1	2.1	2.1	2.2	2.3	2.0	2
3.2	3.0	2.8	2.5	5.4	3.2	1.9	2.0	2.1	2.2	2.1	2.0	3
3.2	2.8	3.0	2.6	2.7	2.4	2.2	1.9	2.2	2.2	2.2	2.2	4
2.8	3.5	3.2	3.0	2.8	2.4	2.1	2.2	2.2	2.4	2.0	2.3	5
3.2	5.0	3.1	3.0	2.6	2.2	2.0	2.2	2.0	2.0	2.1	2.0	6
3.0	3.0	3.0	2.6	4.1	3.3	1.8	1.9	2.1	2.2	2.2	2.2	7
4.0	3.4	3.0	2.8	2.8	2.4	C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
C	3.7	3.2	3.0	2.7	2.4	2.0	1.7	2.4	2.2	2.2	2.2	10
3.4	3.6	3.0	3.0	2.8	2.6	1.9	2.2	2.1	1.9	2.0	2.3	11
3.2	3.1	3.2	2.9	2.6	2.2	2.0	1.8	2.0	2.4	2.3	2.2	12
3.0	3.0	3.0	2.5	2.8	2.2	1.8	2.0	2.2	1.8	2.0	1.9	13
3.2	3.0	3.1	2.8	2.6	2.4	1.9	1.6	2.0	2.0	1.5	2.4	14
3.2	3.1	3.0	2.8	2.6	2.3	1.8	2.2	2.4	2.1	1.9	1.8	15
3.2	3.1	2.8	2.5	2.6	2.2	2.0	2.0	2.2	2.3	1.8	2.3	16
3.3	3.0	2.9	2.6	3.5	2.3	1.9	2.3	2.2	1.9	1.7	2.0	17
2.9	3.1	2.9	2.6	2.5	2.2	2.0	1.7	2.0	2.1	1.9	2.3	18
4.7	3.7	3.0	2.8	3.1	2.6	1.9	1.7	2.0	2.1	2.2	2.3	19
5.4	5.3	4.7	3.2	4.0	2.4	2.0	1.4	1.6	2.2	1.9	1.9	20
3.3	3.1	3.3	2.8	2.8	2.3	1.9	1.6	1.9	1.9	2.0	2.2	21
3.8	3.4	3.0	3.0	3.6	3.1	2.2	2.4	2.2	2.2	2.2	2.0	22
3.5	3.6	3.7	3.0	3.4	4.5	2.2	2.0	2.2	2.1	2.0	2.0	23
3.7	5.0	3.2	3.2	3.8	2.4	2.1	1.8	2.2	2.2	2.2	2.0	24
3.6	3.4	3.0	2.6	13.8C	3.0	2.0	2.0	2.2	2.3	2.2	1.8	25
3.4	3.8	4.7	3.0	2.8	2.6	1.9	1.8	2.0	2.2	1.8	2.1	26
3.8	3.3	3.3	2.8	C	C	C	C	2.0	2.4	2.4	2.2	27
4.0	3.8	3.4	3.2	4.0	3.0	2.0	2.6	2.3	2.2	2.6	2.4	28
3.7	5.0	3.6	3.0	3.0	2.2	2.1	1.7	1.8	2.0	2.0	2.0	29
C	C	C	C	C	C	2.0	2.0	1.8	1.9	2.2	2.2	30
5.2	5.0	3.6	3.0	3.0	2.4	2.1	1.4	1.8	2.4	1.8	2.2	31
27	28	28	28	28	28	28	28	29	29	29	29	Count
3.4	3.4	3.0	2.8	2.8	2.4	2.0	2.0	2.1	2.2	2.0	2.2	Median
3.6	3.6	3.2	3.0	3.3	2.6	2.0	1.9	2.1	2.1	2.0	2.1	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : March 1958

TABLE 28—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.0	C	C	C	C	2.0	2.1	2.1	2.5	6.5	4.8	4.8
2	1.7	1.8	C	C	C	C	C	C	2.8	C	C	C
3	1.6	2.0	1.7	1.6	1.7	1.8	2.2	2.1	2.6	3.0	3.2	3.2
4	2.2	2.0	2.0	1.9	2.0	C	2.3	2.2	2.8	2.7	C	3.2
5	2.1	1.7	1.6	1.5	1.7	1.8	1.9	2.0	2.4	2.4	2.8	2.9
6	2.2	2.1	1.8	C	2.0	2.0	2.4	2.3	2.8	2.7	3.0	3.1
7	2.2	1.8	2.1	1.9	1.7	1.8	1.8	1.9	2.6	2.7	3.0	3.0
8	2.2	2.2	1.7	2.0	2.2	1.9	2.3	2.3	2.7	3.0	3.4	3.8
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11	1.5	1.4	1.7	1.7	2.1	1.8	2.4	2.7	3.0	3.1	3.3	3.4
12	2.2	2.1	2.3	1.7	1.9	2.1	2.0	2.3	2.6	3.2	3.2	3.4
13	2.1	2.1	1.7	1.4	1.5	2.3	1.8	2.1	2.5	2.8	3.0	3.1
14	2.2	2.2	2.0	1.7	1.6	2.2	2.1	2.5	2.7	2.8	3.1	3.2
15	2.2	1.8	2.2	1.9	1.7	1.8	1.9	2.1	2.4	2.7	3.1	3.1
16	2.3	2.0	2.2	2.3	2.0	1.9	2.1	2.2	2.6	3.0	3.2	3.2
17	2.0	2.0	1.9	2.1	1.8	1.9	2.4	2.3	2.6	2.9	3.0	3.1
18	2.0	2.0	1.9	2.0	1.8	1.8	2.0	2.3	2.4	2.7	2.9	3.0
19	2.3	2.3	2.2	1.8	1.8	1.9	2.8	2.5	2.9	3.0	3.0	3.5
20	2.4	2.3	2.2	1.9	2.0	2.2	2.0	2.3	2.6	4.3	4.4	4.4
21	1.9	2.0	1.9	1.9	1.8	1.9	2.0	2.3	3.4	3.0	3.1	3.3
22	2.0	1.7	1.8	1.9	1.8	2.2	2.6	2.9	3.0	3.0	3.6	3.6
23	2.1	2.0	1.7	2.1	2.1	2.1	2.5	2.2	2.7	3.0	3.8	3.8
24	2.3	1.7	2.0	2.1	1.8	2.1	2.0	3.0	4.6	3.8	3.8	3.8
25	2.0	2.0	2.2	2.2	2.3	2.3	2.2	2.6	3.0	3.0	3.8	C
26	2.2	1.8	2.0	2.2	1.7	1.8	1.9	2.2	2.8	3.8	3.2	C
27	C	C	C	C	C	C	C	C	C	C	3.6	3.8
28	2.1	2.0	2.4	2.0	1.8	1.8	1.9	2.2	2.7	4.8	3.6	3.8
29	1.9	1.8	1.7	2.2	1.9	2.0	2.2	2.2	3.0	3.0	C	3.6
30	1.8	1.9	1.7	1.8	2.0	2.0	2.1	2.6	3.2	3.2	C	C
31	2.4	2.3	1.7	2.0	2.2	2.6	2.4	2.4	3.0	3.6	C	5.0
Count	28	27	26	25	26	26	27	27	28	27	24	25
Median	2.1	2.0	1.9	1.9	1.8	2.0	2.1	2.3	2.7	3.0	3.2	3.4
Mean	2.1	2.0	1.9	1.9	1.9	2.0	2.2	2.3	2.8	3.2	3.4	3.5

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : March 1958

TABLE 28—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
3.5	3.0	4.8	2.9	2.4	2.4	1.8	2.1	2.0	1.9	2.0	2.0	1
C	C	C	3.8	2.6	2.4	1.6	2.1	2.2	2.2	2.2	1.6	2
2.9	2.8	2.7	9.8	3.8	2.6	1.7	2.2	1.8	2.0	1.8	2.0	3
3.2	3.0	3.0	2.8	2.4	2.5	1.9	2.0	2.2	2.0	2.2	1.8	4
3.2	3.1	3.0	3.0	2.7	2.6	1.8	2.5	2.2	2.3	2.4	2.2	5
3.4	3.6	3.2	3.1	2.5	2.4	1.6	2.3	2.2	2.2	2.3	1.9	6
3.0	3.0	2.8	3.2	3.4	2.6	1.6	2.0	1.9	2.1	2.2	2.2	7
3.8	3.4	2.8	2.9	2.4	C	C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
5.0	3.5	3.0	3.0	2.6	2.5	1.6	2.2	2.2	2.4	2.5	2.0	10
3.4	3.2	3.2	3.0	2.6	2.6	1.6	2.2	2.0	1.9	2.1	2.6	11
3.2	3.1	3.0	2.8	2.5	2.5	1.4	2.5	1.7	2.0	2.4	2.3	12
3.0	2.9	2.5	3.0	2.4	2.6	1.5	1.8	2.2	2.3	2.4	1.9	13
3.1	3.2	3.0	3.0	3.1	2.5	1.6	1.8	2.0	1.5	1.6	2.1	14
3.3	3.0	2.7	2.8	2.4	1.9	1.5	1.8	2.3	2.3	1.9	2.0	15
3.1	2.9	2.6	2.9	2.3	2.4	1.5	2.0	2.0	2.2	2.4	2.2	16
3.1	3.0	2.6	4.0	2.6	2.5	1.6	2.0	2.0	1.8	1.8	1.9	17
3.0	3.0	2.7	2.7	2.4	2.4	1.4	1.6	2.2	2.0	2.4	2.4	18
4.5	3.0	3.0	3.0	2.7	2.5	1.7	1.8	2.1	2.2	2.3	2.1	19
5.7	5.2	4.4	3.4	3.0	2.2	1.4	1.5	2.1	1.9	2.0	2.0	20
3.2	3.1	3.0	5.5	2.6	2.4	1.5	2.1	1.9	1.8	1.9	2.0	21
3.4	3.2	3.1	2.6	4.0	2.5	1.7	2.2	2.4	2.0	2.2	2.2	22
3.6	3.4	3.0	B	6.3	3.2	1.6	2.2	2.0	2.0	2.2	2.0	23
3.6	3.8	3.2	3.0	2.8	2.4	1.5	1.8	1.8	2.2	2.2	2.1	24
3.5	3.2	3.0	3.9	C	2.8	1.8	2.4	2.2	2.2	2.1	2.0	25
3.4	C	3.2	3.1	2.8	2.6	1.5	2.0	2.0	2.0	2.0	2.0	26
3.6	3.4	3.1	3.2	C	C	C	2.4	2.2	2.3	C	2.1	27
3.8	3.5	3.6	3.2	2.6	2.8	2.0	2.0	2.0	2.2	2.4	1.9	28
3.4	4.6	3.2	3.2	2.6	2.6	1.4	1.7	2.1	2.0	2.2	1.7	29
C	C	C	C	C	2.8	1.8	1.7	1.8	2.0	2.0	2.2	30
5.1	3.6	3.0	4.0	2.8	2.6	1.6	1.6	2.0	2.0	2.2	2.2	31
28	27	28	28	27	28	28	29	29	29	28	29	Count
3.4	3.2	3.0	3.0	2.6	2.5	1.6	2.0	2.0	2.0	2.2	2.0	Median
3.6	3.3	3.1	3.5	2.9	2.5	1.6	2.0	2.1	2.1	2.2	2.1	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2
Unit : Km
Month : March 1958

TABLE 29
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								G	L	L	L	L
2								L	L	L	L	L
3									L	L	L	L
4								L	L	L	L	L
5												
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								G	G	G	G	G
10												
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15												
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20												
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Count							
Median							
Mean							

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2

Unit : Km

Month : March 1958

TABLE 29

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L	L							1
G	G	G	C _{LH}	L _{LH}	I _{LH}							2
L	L	L	L	L	L							3
L	L	L	L	L	L							4
L	L	L	L	L	L							5
L	L	L	L	L	L							6
L	L	L	L	L	L							7
G	G	G	L	C	C							8
C	L	L	L	L	L							9
												10
L	L	L	L	L	L							11
L	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L	L	L	L	L	L							30
L	L	L	L	L	L							31
..	..	..	..	..	..							Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2
Unit : Km
Month : March 1958

TABLE 29—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2							C	L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5							L	L	L	L	L	L
6								L	L	L	L	L
7							L	L	L	L	L	L
8							C	L	L	L	L	L
9							C	C	C	C	C	C
10								C	C	C	C	C
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27							C	L	L	L	L	L
28							L	L	L	L	L	L
29								L	L	L	L	L
30							L	L	L	L	C	C
31							L	L	L	L	C	L
Count					
Median					
Mean					

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2

Unit : Km

Month : March 1958

TABLE 29—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L C L L L	L C L L L	L C L L L	L L B L L	L L L ^H L								1
L L L C L	L L L C L	L L L C L	L L L C L	L L L C L								2
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								3
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								4
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								5
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								6
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								7
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								8
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								9
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								10
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								11
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								12
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								13
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								14
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								15
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								16
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								17
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								18
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								19
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								20
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								21
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								22
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								23
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								24
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								25
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								26
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								27
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								28
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								29
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								30
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								31
..	..	..	..	..								Count
..	..	..	..	..								Median
..	..	..	..	..								Mean

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic : h'F
Unit : Km
Month : March 1958

TABLE 30
Ionospheric Data
75.0°E Mean Time

Latitude : 10.2°N
Longitude : 77.5°E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	265	250	C	C	C	C	260	250	240	B	B	230
2	240	235	C	C	C	C	C	C	C	C	C	C
3	245	235	220	U225F	220	225	280F	250	240	225	210H	220
4	240	230	240	260	295	295	C	260H	240	220	C	C
5	235	235	245	245	235	225	245	250	235	225	215	210H
6	265	235	230	220	235	260	305	260	240	220	215	210
7	245	235	235	235	250	240	245	250	235	225	215	210H
8	240	235	235	260	240	210	240	240	235	220	220	220
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11	260	260	240	240	235	220	250	250	240	230	225	210
12	240	265	300	285	260	230	240	260	240	240	225	220
13	235	245	270	280	290	265	250	250	240	230	215	210H
14	245	260	255	240	245	230	265	260	240	230	220	210H
15	245	240	225	220	240	240	280	255	240	230	220	205H
16	260	255	250	240	235	220	245	250	240	225	220	220
17	270	250	240	220	230	250	275	255	240	230	220	210
18	260	260	290	320	270	220	240	250	240	220	220	220
19	260	250	280	320	330	265	250	250	240	225	225	220
20	270	270	235	255	265	260	285	260	240	230	220	230
21	240	240	225	230	280	350	300	260	240	225	210	220
22	285	295	270	240	220	220	240	250	250	240	230	235
23	245	240	240	220	240	260	280	250	240	230	220	220
24	260	240	235	255	260	225	255	255	245	B	220	U240B
25	280	290	265	240	240	220	250	255	240	235	230	240
26	290	310	300	280	245	230	260	250	240	235	230	225
27	C	C	270	C	C	C	C	C	C	C	C	220
28	260	265	260	240	240	240	275	250	240	220	220	220
29	280	260	260	240	220	235	250	240	240	230	220	220
30	280	260	250	240	220	220	260	250	240	230	C	C
31	305	280	265	250	240	275	270	255	240	240	230	220
Count	28	28	27	26	26	26	26	27	27	25	24	26
Median	260	250	250	240	240	230	260	250	240	230	220	220
Mean	260	255	255	250	250	240	260	250	240	230	220	220

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km

Month : March 1958

TABLE 30

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
220 C	220 C	215 C	225 C	240 240	250 255H	300H 300	440F 465	400F U460F	385F U380F	260 U345F	235 260	1
220	220	205	230	B	265	305H	425H	450	400	300	260	2
210H	215H	220	235	245	260	300	460	400	325	300	235	3
205H	210H	220H	235	245	265H	310H	380H	335H	275	265	270	4
205H	B	220	235	240	260	300	440	400	350	280	260	5
205	210	220	230	255	260H	300	435H	385H	295	240	250	6
220	220	220	225	240	255	C	C	C	C	C	C	7
C	C	C	C	C	C	C	C	C	C	C	C	8
C	220	220	225	240	255	300	430	420	340	280	250	9
215H	205H	205H	220	240	260	305	425	395	325	285	250	10
220	205H	220	235	245H	260	300	375	370	300	250	235	11
215	220	220	230	240	260	305	420	315	260	240	245	12
215H	210	205H	220H	240	250	300	420H	405	325H	300	295	13
220H	210H	225	230	245	260	305	420	360	260	240	245	14
205H	215	205H	230H	250	270	320	U475F	U440F	U330F	F	U305F	15
210H	200H	210	220H	245	270	310	380H	U340FH	260	240	250	16
215	200H	210H	200H	250	270	300	U410F	430	280	260	245	17
225H	220	215H	230	250H	270	300	U370F	U390F	290	260	260	18
B	B	U245B	245	255	270	300	405	440	330	240	235	19
220	220	220	235	250	270	305	435	U460F	305	280	255	20
220	215	225	230	245	260	310	500F	460	410	320	280	21
215	210	240	B	B	B	320	440	440	340	280	260	22
220	U245B	220	235	255	265	315	440	400	280	245	240	23
220	220	225	225	C	270	315	480	460F	320	260	280	24
220	225	230	240	240	270	315	480	500F	U380F	285	285	25
205H	200H	210H	230	C	C	C	C	420	380	380	300	26
220H	215H	220	240	240	260	320	480	U440F	F	325	320	27
220	U235B	220	240	240	260	310	500	U500F	U480F	340	340	28
C	C	C	C	C	C	325	460H	480	340	280	290	29
U230B	U230B	220	240	250	260	320	440	480	400	360	280	30
26	26	28	27	25	27	28	28	29	28	28	29	Count
220	215	220	230	245	260	305	440	420	330	280	260	Median
215	215	220	230	245	260	310	435	420	335	285	265	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F
Unit : Km
Month : March 1958

TABLE 30—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	260	C	C	C	C	220	275	245	235	B	B	230
2	235	230	C	C	C	C	C	C	235	C	C	C
3	240	235	220	U220F	230	245	270	245	230	220	230H	215
4	230	235	260	290	295	C	280H	245	235	220H	C	210
5	240	240	240	235	225	220	265	240	235	220	215H	205H
6	260	220	220	C	245	280	265	240	240	220	215	215H
7	235	235	235	240	240	225	265	245	230	220	215	200H
8	240	225	240	260	230	205	255	240	235	220H	220	225H
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11	260	250	240	245	220	205	260	245	240	225	220H	210H
12	260	285	300	275	245	225	270	255	240	235	220	215
13	235	260	275	280	280	245	270	250	235	215	210	215
14	260	270	250	240	235	240	270	245	230	225	215H	220H
15	240	230	225	230	240	240	270	250	235	225	220	205
16	260	255	240	240	230	225	260	245	235	215	225	220
17	260	240	225	230	240	255	265	250	240	225	215	200H
18	260	270	310	300	235	220	260	240	230	225	215	220
19	260	260	295	330	300	230	260	240	230	220	220	215
20	275	240	250	260	260	245	270	245	240	230	225	230
21	240	240	220	245	340	320	275	250	230	220	215	220
22	230	290	255	225	220	220	260	245	240	230	230	225
23	240	240	230	225	240	280	260	245	235	220	220	215
24	250	230	240	260	240	220	260	255	240	230	220	U240B
25	290	280	260	245	220	220	260	250	230	220	225	C
26	305	300	280	260	240	230	265	250	240	230	230	225
27	C	C	C	C	C	C	C	C	C	C	215	210H
28	260	260	240	225	235	240	260	250	220	B	220	220
29	260	245	240	225	220	220	260	240	235	220	C	220
30	260	260	250	225	220	220	260	250	240	230	C	C
31	280	270	260	240	270	260	260	250	240	235	C	U225B
Count	28	27	26	25	26	26	27	27	28	25	23	26
Median	260	245	240	240	240	230	265	245	235	220	220	220
Mean	255	250	250	250	245	235	265	245	235	225	220	215

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds

Characteristic : h'F

TABLE 30—contd.

Latitude : 10° 2' N

Unit : Km

Ionospheric Data .

Longitude : 77° 5' E

Month : March 1958

75° 0' E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
220 C	215 C	B C	230 235	240 255H	270 280H	365H 365	F U500F	380F F	300 335F	260 U300F	235 245	1
220H	210H	215	B	270	285H	365H	460	420	350	280	240	2
205H	200H	230	240	245	280	365	460	360	340	260	240	3
215H	210H	230H	240	260H	285H	360H	370H	300H	265	260	270	4
												5
215H	220	220	230	250	280	375H	400	400	300	280	245	6
220	220	225	235	255	280H	370	435FH	335	250	240	250	7
220H	225	215H	235	245	C	C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
235	215	210H	235	250	275	375	440	380	310	260	245	10
210H	210H	215H	240	250	280	380	420	355	305	265	245	11
215	220	235	230H	255H	280	350	390	330	265	240	240	12
220	210H	225	240	250	285	380	380	275	255	240	240	13
210	215	205H	235	245	280	360H	425	U380FH	U305F	300	275	14
220	210H	230	240	255	280	375	400	300	260	240	265	15
210	210	215H	240	255	280	380	U500F	U390F	345	U300F	295	16
210	200H	215	240	250	290	360H	U385F	300H	250	245	265	17
210	215H	210H	240	260	290	360	U435F	340	260	240	255	18
225H	230	230	240H	255	280	340	U380F	U340F	260	265	255	19
B	B	250	255	265	280	370	430	395	280	240	235	20
220	215	225	B	260	290	380	440	400	290	255	280	21
220	220	220	240	260	280	390	440F	440	360	280	260	22
205	220	230	B	B	300	390	460	390	300	260	270	23
220	220	235	240	260	280	380	460	300	265	240	260	24
225	220	220	240	260	290	390	500	440F	260	270	285	25
C	230	U200HC	240	260	290	390	520	500F	U310F	280	260	26
200H	200H	230	240	C	C	C	500	370	380	C	280	27
220H	220	240	240	260	280	400	F	F	U440F	400	300	28
225	220	230	240	250	280	390	600F	470F	U440F	340	260	29
C	C	C	C	C	300	395	470	440	300	280	300	30
U230B	220	240	240	260	285	380	480	430	385	320	270	31
26	27	27	26	27	28	28	27	27	29	28	29	Count
220	215	225	240	255	280	375	440	380	300	260	260	Median
215	215	225	240	255	285	375	445	375	310	275	260	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : March 1958

TABLE 31

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								120	A	B	B	B
2								C	C	C	C	C
3								110	110	A	A	A
4								115	105	A	C	C
5								120H	A	A	A	A
6								115	A	115	A	A
7								115H	105	A	A	A
8								120	A	105	105	A
9								C	C	C	C	C
10								C	C	C	C	C
11								115	A	A	A	A
12								120	A	A	A	A
13								105	A	A	A	A
14								120	110	110	A	A
15								120	A	A	A	A
16								120H	115H	A	A	A
17								120	110	A	A	A
18								120	A	A	A	A
19								A	A	A	A	A
20								A	A	A	A	B
21								U110A	A	A	A	A
22								120	B	A	A	A
23								A	110	110	A	A
24								120	A	B	A	B
25								120	A	C	A	B
26								115	115	110	110	110
27								C	C	C	C	A
28								A	A	115	110	110
29								120	A	105	A	A
30								120	115	A	C	C
31								120	A	B	A	A
Count								23	9	7	3	2
Median								120	110	110	..	..
Mean								115	110	110	..	..

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : March 1958

TABLE 31

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	105	105	105	110							1
C	C	C	C	A	115							2
A	105	A	105	B								3
A	A	110	A	110	A							4
A	115	110	115	120	120							5
A	B	110	110	110	A							6
A	A	A	A	B	120							7
A	A	105	A	110								8
C	C	C	C	C	C							9
C	A	105	A	110								10
A	A	A	A	115	F							11
A	A	115	110	A	115							12
A	A	A	A	A	120							13
A	A	A	A	A	120							14
A	A	A	A	A	110							15
A	A	A	A	A	125							16
A	A	A	100	B	A							17
A	A	A	A	A	A							18
B	B	B	A	115	A							19
B	B	B	A	B	A							20
A	A	A	A	A	A							21
B	A	110	115	115	B							22
110	A	A	B	B	B							23
A	A	110	110	B	115							24
A	A	110	A	B								25
110	B	B	110	115	C							26
A	A	A	110	C	B							27
A	110	110	115	B	110							28
B	B	A	105	C	C							29
C	C	C	C	C	C							30
B	B	A	A	120	115							31
2	3	11	12	12	12							Count
..	..	110	110	110	115							Median
..	..	110	110	110	115							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E
Unit : Km
Month : March 1958

TABLE 31—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							160	105	A	B	B	B
2							C	C	A	C	C	C
3								110	A	A	105	A
4								105	105	A	C	A
5							135H	105	105	A	105	A
6								A	A	A	A	A
7							140H	110	A	A	A	A
8								115	105	105	A	B
9							C	C	C	C	C	C
10							C	C	C	C	C	C
11								120	A	A	A	A
12							130	110	110	A	A	A
13							120H	105	A	A	A	A
14							130	115	110	A	A	A
15							120	110	A	A	A	A
16							140	115H	A	A	A	A
17								115	110	A	A	A
18							125	A	A	A	A	A
19							A	A	A	A	A	A
20							100	A	A	B	B	B
21							120H	A	A	A	A	A
22								120	A	A	A	A
23								115	110	A	B	B
24							120	A	B	B	A	B
25								120	115	A	B	C
26							120	120	110	B	110	A
27							C	C	C	C	A	A
28							120	A	110	B	110	A
29							120	A	110	A	C	A
30							120	120	115	A	C	C
31							120	110	A	A	C	B
Count							17	19	13	1	4	..
Median							120	115	110	..	..	..
Mean							125	115	110	..	..	..

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E
Unit : Km
Month : March 1958

TABLE 31—Contd.
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	105	B	105	110								1
C	C	C	B	A								2
A	A	105	B									3
105	A	A	110	110								4
110	110	115	120	120								5
A	120	110	110	110								6
A	A	105	120	B								7
A	105	A	105	A								8
C	C	C	C	C								9
B	A	105	105	110								10
A	A	A	A	115								11
A	110	110	A	110								12
A	A	A	A	110								13
A	A	A	115	A								14
A	A	A	A	110	120							15
A	A	A	A	A								16
A	A	110	B	115								17
A	A	A	A	A								18
B	A	A	A	A	A							19
B	B	B	A	A								20
A	A	A	B	A								21
A	110	110	110	B								22
110	110	110	B	B								23
A	110	A	110	110								24
A	110	110	B	C								25
110	C	110	B	115								26
A	A	110	120	C	C							27
A	110	110	115	120								28
A	B	A	105	110								29
C	C	C	C	C								30
B	A	A	B	A								31
4	10	13	13	14	1							Count
..	110	110	110	110	..							Median
..	110	110	110	110								Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es
Unit : Km
Month : March 1958

TABLE 32
Ionospheric Data
75.0°E Mean Time

Latitude : 10.2° N
Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	105	100	C	C	C	C	C	G	100	B	100	100
2			C	C	C	C		C	C	C	C	C
3								105	100	100	100	100
4							C	105	100	100	C	C
5								G	100	100	100	100
6								105	100	G	100	100
7								G	100	100	100	100
8		105						G	100	100	100	100
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11								G	100	100	100	100
12								140	100	100	100	100
13								G	100	100	100	100
14								G	100	100	100	100
15								100	100	100	100	100
16								G	100	100	100	100
17								G	100	100	100	100
18								100	100	100	100	100
19								100	100	100	100	100
20							120	100	100	100	100	100
21								100	100	100	100	100
22								G	100	100	100	100
23								110	100	100	100	100
24								G	100	100	100	100
25								G	100	100	100	100
26								100	100	100	100	100
27	C	C		C	C	C	C	C	C	C	C	100
28	105	105						100	100	100	100	100
29	110							G	100	100	100	100
30								130	100	100	C	C
31								100	100	100	100	100
Count	3	3	..	..	..	..	1	14	27	25	25	26
Median	..	..	..	..	..	..	..	100	100	100	100	100
Mean	..	..	..	..	..	..	..	105	100	100	100	100

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : March 1958

TABLE 32—contd.

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100	100							1
C	C	C	C	C	105							2
100	100	100	100	B								3
100	100	G	100	100	100							4
100	G	G	G	G	110			130				5
100	100	G	G	G	100							6
100	100	100	100	G	105							7
100	100	100	100	100		C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
C	100	100	100	100								10
100	100	100	100	100	105							11
100	100	100	100	100	105							12
100	100	100	100	100	105							13
100	100	100	100	100	105					120		14
100	100	100	100	100	105							15
100	100	100	100	100	100					115		16
100	100	100	100	G	100							17
100	100	100	100	100	100							18
100	100	100	100	100	105							19
100	100	100	100	100	100							20
100	100	100	100	100	100							21
100	100	100	100	100	G							22
100	100	100	B	B	G							23
100	100	100	100	100	100							24
100	100	100	100	100	100						120	25
100	100	100	100	105	105					120		26
100	100	100	100	C	C	C	C					27
100	100	100	100	100	105							28
100	100	100	100	100	100							29
C	C	C	C	C	C							30
100	100	100	100	100	100							31
27	27	25	25	22	23	..	..	1	..	3	1	Count
100	100	100	100	100	100	..	..	..	..	..	..	Median
100	100	100	100	100	100	..	..	..	..	..	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E_s
 Unit : Km
 Month : March 1958

TABLE 32—*contd.*
 Ionospheric Data
 75°0'E Mean Time

Latitude : 10°2' N
 Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	105	C	C	C	C	C	G	100	100	B	100	100
2			C	C	C		C	C	100	C	C	C
3								105	100	100	100	100
4								100	100	100	C	100
5							G	100	100	100	100	100
6				C			120	100	100	100	100	100
7							G	105	100	100	100	100
8	105							G	100	100	100	100
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11								105	100	100	100	100
12							105	100	G	100	100	100
13							G	100	100	100	100	100
14							G	G	100	100	100	100
15							G	100	100	100	100	100
16							G	G	100	100	100	100
17								100	100	100	100	100
18							G	100	100	100	100	100
19								100	100	100	100	100
20								100	100	100	100	100
21							G	100	100	100	100	100
22								G	100	100	100	100
23								100	100	100	100	100
24							G	100	100	100	100	100
25							100	100	100	100	100	100
26							G	100	100	100	100	100
27	C	C	C	C	C	C	C	C	C	C	100	100
28	105	105					G	100	100	100	100	100
29							120	100	100	100	C	100
30	110						120	100	100	100	C	C
31							G	100	100	100	C	100
Count	4	1	..	..	..	..	5	23	27	26	24	27
Median	..	..	..	..	..	..	120	100	100	100	100	100
Mean	..	..	..	..	..	..	115	100	100	100	100	100

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : March 1958

TABLE 32—contd.

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	100								1
C	C	C	G	105								2
100	100	100	B	100					120			3
G	100	100	100	100								4
G	G	G	G	105								5
												6
100	100	G	G	100								7
100	100	100	100	G							105	8
100	100	100	100	100	C	C	C	C	C	C	C	9
C	C	C	C	C	C	C	C	C	C	C	C	10
100	100	100	100	100								11
100	100	100	100	105	110							12
100	100	100	100	105	105							13
100	100	100	100	100	105							14
100	100	100	100	105	110				120	115	110	15
100	100	100	100	105	110							16
										115		17
100	100	100	100	100								18
100	100	100	100	100	100							19
100	100	100	100	100	105							20
												21
100	100	100	B	100								22
100	100	100	G	G								23
100	100	100	B	B								24
100	100	100	100	100								25
100	100	100	100	C							120	26
												27
100	C	100	100	105								28
100	100	100	100	C	C	C				C	105	29
100	100	100	100	100	110						115	30
100	100	100	100	100	100							31
C	C	C	C	C								
100	100	100	100	100								
26	26	26	23	24	9	..	..	..	2	2	5	Count
100	100	100	100	100	105	..	..	..	..	..	110	Median
100	100	100	100	100	105	..	..	..	..	..	110	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

Unit :

Month : March 1958

TABLE 33

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	U2.95F	F	C	C	C	C	2.80	2.85	2.60	U2.45R	2.30	2.20
2	2.65	F	C	C	C	C	C	C	C	C	C	C
3	U2.50F	U2.70F	F	3.10	F	U3.30F	2.75F	U2.75S	2.50	2.45	2.35	2.35
4	F	3.00	3.05F	2.90F	2.75F	U2.75F	C	2.60	2.10H	2.35	C	C
5	2.60	U2.80F	2.80	2.80	3.00	3.20	U3.15S	2.90	2.60	2.25	2.25	2.15
6	2.80	2.95	3.00	3.10	3.05	2.90	2.70	2.70	2.50	2.40	2.40	2.10
7	2.80	3.00	2.95	3.00	U2.80S	2.90	3.15	2.80	2.30	2.30	2.20	2.20
8	2.90	3.05	2.95	2.90	3.00	3.30	2.90	3.00	2.80	2.40	2.15	2.10
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11	2.80	2.80	2.80	2.80	2.95	3.20	2.85	2.90	2.60	C	2.20	2.15
12	U2.75C	2.65	2.50F	U2.60F	2.85	2.95	3.10	2.95	2.55	C	2.15	2.05
13	2.80	U2.85S	2.70	2.70	2.70	2.85F	U3.05S	2.90	2.55	J2.25R	2.20	J2.19B
14	2.80	2.80	2.80	2.75	2.85	3.10	2.85	2.80	2.60	2.40	2.30	2.20
15	2.55	2.90	3.05	3.25	3.10	3.00	2.80	2.80	2.50	2.30	2.20	2.20
16	2.65	2.75	2.90	3.00	3.05	3.20	3.00	2.90	2.70	2.45	2.10	2.10
17	F	U2.80SF	2.85	3.00	3.10	3.05	U2.85S	FS	U2.55F	2.25	2.20	2.25
18	2.80	2.90	2.70	2.55	2.80	3.15	3.05	2.85	2.45	2.40	2.30	2.15
19	2.65	2.60	2.60	2.55	2.50	2.75	2.85	2.70	2.40	2.30	2.25	2.20
20	2.65	2.75	3.00	2.85	2.85	3.00	2.90	2.80	2.55	2.30	2.35	2.15
21	3.00	2.95	3.10	3.10	2.80	2.50	2.75	2.65	2.45	2.35	2.25	2.25
22	2.70	U2.85R	2.80	2.90	3.20	U3.25F	3.10	3.00	2.90H	2.50	U2.15RH	2.15
23	F	F	F	F	U3.25F	U3.20F	2.90	3.00	2.65	2.20	2.40	2.25
24	2.95	3.00	3.05	2.95	2.90	3.10	3.00	2.90	2.60	2.30	2.30	2.20
25	2.80	2.75	2.80	2.90	3.00	3.20	2.90	2.90	2.60	2.35	U2.15R	2.30
26	2.65	2.70	F	2.80	3.00	3.10	3.00	2.80	2.50	2.20	2.30	2.25
27	C	C	U2.75S	C	C	C	C	C	C	C	C	2.10
28	F	F	U3.00F	U3.15F	3.20	3.15	2.95	2.90	2.70	2.35	2.20	2.20
29	F	2.90	F	F	3.15	F	F	U2.95S	2.75	2.45	2.10	2.15
30	F	F	F	F	3.10	F	F	U2.90S	2.60	U2.30R	C	C
31	U2.45S	U2.70S	U2.80S	2.85	2.90	U2.85S	U2.95S	2.70	2.40	2.35	2.15	2.10
Count	22	23	22	23	25	24	24	26	27	25	25	26
Median	2.80	2.80	2.80	2.90	3.00	3.10	2.90	2.90	2.55	2.35	2.20	2.20
Mean	2.75	2.85	2.85	2.90	2.95	3.05	2.90	2.85	2.55	2.35	2.25	2.20

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

TABLE 33—*conld.*

Latitude : 10° 2' N

Unit :

Ionospheric Data

Longitude : 77° 5' E

Month : March 1958

75° 0' E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
2.15 C	2.15 C	2.15 C	2.15 C	2.15 2.20	2.10 2.10	U2.05S U2.00S	F 1.95	F F	F F	F F	U3.10F 2.60	1
2.15	2.15	2.15	2.15	2.20	2.15	2.15	2.00	F	F	U2.25F	U2.50F	2
2.10	2.15	2.15	2.20	U2.15R	2.00	U1.85R	1.85	F	U2.20F	U2.35F	U2.65F	3
U1.95W	2.30	2.35	2.30	2.30	2.25	2.10	2.05	2.15	2.30	2.55	2.75	4
2.05	2.15	2.15	2.20	2.15	U2.15R	2.00	U1.90R	F	F	F	2.60	5
2.15	2.15	2.15	2.15	2.20	2.15	2.05	1.95	U2.00F	2.35	2.65F	2.85	6
2.05	2.10	2.05	2.05	2.15	2.15	C	C	C	C	C	C	7
C	C	C	C	C	C	C	C	C	C	C	C	8
C	2.10	2.05	2.10	2.10	2.10	2.10	1.95	2.00	2.20	U2.55S	U2.65F	9
C	2.15	2.10	C	2.05	C	2.00	1.95	C	C	2.45F	2.65	10
2.10	2.10	2.15	2.15	2.15	2.00	J1.95S	2.05	2.15	2.30	2.55	2.80	11
2.10	2.05	2.05	2.00	U2.05S	2.15	2.05	1.95	2.10	2.40	2.70	2.85	12
2.10	2.10	2.10	2.15	2.15	2.10	2.00	U1.90W	E1.90W	2.05	U2.25R	U2.15F	13
2.10	2.05	2.05	2.10	2.05	2.00	2.10	2.00	2.20	2.40	2.65	2.70	14
2.15	2.05	2.05	2.10	1.95	2.10	U2.00S	U1.95SF	U2.00F	F	F	U2.40F	15
2.20	2.10	2.05	2.15	2.35	2.30	2.15	2.10H	U2.10SH	2.30	U2.45R	2.75	16
2.10	2.15	2.20	2.05	2.10	2.05	2.00	1.95	U2.05F	U2.50S	U2.65S	2.70	17
2.15	2.20	2.20	2.15	2.25	2.05	U2.00S	U1.95R	U2.00S	U2.30S	U2.40R	U2.50R	18
2.20	2.05	2.05	2.10	2.15	2.10	2.10	2.00	1.95	2.35	2.60	2.85	19
2.15	2.10	2.15	2.15	2.45	2.30	2.10	1.85	F	F	2.25	U2.45F	20
2.20	U2.25R	2.30	2.30	2.30	2.40	2.25	U2.00F	F	F	F	F	21
2.20	2.15	2.15	2.25	U2.45R	2.25	2.10	U1.90WR	U1.95F	2.15	F	2.65	22
2.15	2.15	2.10	2.05	2.05	2.00	2.05	U1.95S	U2.00S	2.30	2.60	2.80	23
2.15	2.35	2.15	2.25	2.20	2.20	R	W	F	F	R	2.50	24
2.15	2.15	2.10	2.10	C	2.05	2.05	1.95	F	2.15	2.50	R	25
2.20	2.15	2.10	2.10	C	C	C	C	F	F	F	F	26
2.10	2.05	2.05	2.10	2.15	U2.15S	U2.10S	U2.00S	F	F	F	F	27
2.10	2.10	2.10	2.10	2.10	2.00	U2.00S	U1.95F	F	F	F	F	28
C	C	C	C	C	C	U2.05R	W	2.05	U2.15S	2.30	U2.45S	29
2.10	2.10	2.15	2.10	2.10	2.00	R	W	F	U1.95F	F	F	30
26	28	28	27	27	27	26	27	15	17	18	23	Count
2.15	2.15	2.10	2.15	2.15	2.10	2.05	1.95	U2.00	2.30	2.50	2.65	Median
2.15	2.15	2.15	2.15	2.15	2.10	2.05	1.95	U2.05	2.25	2.50	2.65	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

TABLE 33—*contd.*

Latitude : 10° 2' N

Unit :

Ionospheric Data

Longitude : 77° 5' E

Month : March 1958

75° 0' E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.95 ^F	C	C	C	C	3.40	2.90	2.75	2.40	2.30	2.25	2.15
2	2.70	2.90 ^F	C	C	C	C	C	C	2.40	C	C	C
3	U2.80 ^F	F	F	U3.00 ^F	3.25	3.30	2.85	2.55	2.50	2.40	2.40	2.20
4	2.85	3.00	2.85 ^F	F	F	C	U2.70 ^S	2.40 ^H	2.40	2.30	C	2.15
5	U2.65 ^F	U2.80 ^F	2.75	2.95	3.10	U3.25 ^S	U3.00 ^S	2.75	2.40	2.20	2.20	2.05
6	2.85	3.05	3.05	C	2.95	2.75	2.60	2.65	2.45	2.45	2.30	2.05
7	2.95	2.95	2.95	U2.85 ^S	2.80	3.15	3.00	2.60 ^H	2.35	2.25	2.30	2.15
8	3.00	3.00	2.95	2.85	3.10	3.40	3.00	2.90	2.60	2.20	2.20	2.10
9	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C
11	2.75	2.70	2.80	2.80	3.05	3.35	2.95	J2.70 ^S	2.35	2.15	2.20	U2.23 ^C
12	2.70	2.50	C	2.70	U2.85 ^C	3.15	3.05	2.70	2.40	C	2.10	2.15
13	J2.85 ^R	2.80	2.70	J2.65 ^S	2.75	J3.05 ^S	3.00	2.75	2.35	2.25	2.15	2.10
14	2.75	U2.85 ^S	2.80	2.85	2.90	3.05	U2.85 ^S	2.70	2.50	2.30	2.25	2.15
15	2.75	2.95	3.15	3.10	3.10	3.10	2.90	2.65	2.35	2.25	2.20	2.15
16	2.70	2.85	2.95	3.00	3.10	3.20	U2.95 ^S	2.80	2.55	2.35	2.05	2.10
17	U2.70 ^F	FS	2.90	3.05	3.05	3.05	F	F	2.35	2.25	2.25	2.20
18	2.85	2.85	2.60	2.65	2.95	3.25	2.95	2.65	2.35	2.35	2.15	2.15
19	2.60	2.65	2.55	2.50	2.55	2.85	2.85	2.55	U2.15 ^R	2.25	2.15	2.15
20	2.70	2.90	2.95	2.85	2.90	3.05	2.85	2.65	2.25	2.40	2.35	2.25
21	2.95	3.00	3.05	3.00	2.60	2.60	2.70	2.60	2.35	2.30	2.25	2.15
22	2.70	2.75	2.80	3.00	F	F	3.05	3.00	2.65	2.35	2.05	2.20
23	F	U3.05 ^F	U3.10 ^F	F	F	3.20	3.00	2.85	2.40	2.40	2.35	2.23
24	2.90	3.10	3.00	2.90	2.95	U3.20 ^S	3.10	2.75	2.40	2.25	2.25	2.15
25	2.75	2.80	2.90	3.00	3.10	3.30	2.95	2.75	U2.50 ^R	C	2.20	2.20
26	2.70	2.70	2.70	U2.90 ^S	3.00	3.05	2.90	2.65	2.30	2.25	2.30	2.25
27	C	C	C	C	C	C	C	C	C	C	2.20	2.15
28	F	F	F	3.20	3.20	3.00	3.00	2.80	2.60	2.20	2.20	2.15
29	U2.80 ^F	2.90	F	U3.10 ^F	3.15	F	U3.00 ^F	2.90	2.60	2.15	C	2.15
30	F	F	F	F	3.30 ^F	F	F	2.80	2.50	2.10	C	C
31	U2.55 ^S	U2.75 ^S	2.80	2.90	2.85	U3.00 ^S	2.85	2.60	J2.30 ^R	2.25	C	2.10
Count	25	23	21	22	23	23	25	26	28	25	24	27
Median	2.75	2.85	2.90	2.90	3.00	3.15	2.95	2.70	2.40	2.25	2.20	2.15
Mean	2.80	2.85	2.85	2.90	3.00	3.10	2.90	2.70	2.40	2.30	2.20	2.15

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

TABLE 33—*contd.*

Latitude : 10° 2' N

Unit :

Ionospheric Data

Longitude : 77° 5' E

Month : March 1958

75° 0' E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2.20	2.15	2.15	2.15	2.15	2.05	1.95	F	F	U2.55F	F	U2.60F	1
C	C	C	U2.35R	2.15	2.05	1.90	U2.00F	F	U2.40F	F	F	2
2.15	2.15	2.20	R	2.25	2.20	2.00	U1.90F	F	F	U2.40F	F	3
2.15	2.15	2.20	2.15	2.10	2.00	1.85	F	U2.10F	F	U2.60F	2.50	4
2.30	2.30	2.30	2.30	2.25	2.15	2.05	2.05	R	2.40	2.70	2.75	5
2.10	2.15	2.20	2.20	2.15	U2.05R	U1.95R	U1.90F	F	F	U2.45F	2.65	6
2.10	2.10	2.10	2.15	2.20	2.15	2.00	2.00	U2.15F	U2.55F	2.80	2.90	7
2.10	2.05	2.05	2.15	2.15	C	C	C	C	C	C	C	8
C	C	C	C	C	C	C	C	C	C	C	C	9
2.15	2.10	2.10	2.10	2.10	2.10	2.00	2.00	2.10	2.40	2.60	2.80	10
C	2.15	C	C	C	C	2.00	1.95	2.15	U2.35C	U2.45C	2.60	11
2.15	2.10	2.15	2.15	J2.05R	J1.90R	2.00	2.05	2.20	U2.40S	2.65	2.85	12
2.05	2.05	2.05	2.00	U2.10S	2.10	1.95	2.05	2.25	U2.65R	2.85	2.85	13
2.10	2.10	2.10	2.15	2.10	2.05	2.00	1.90F	U1.90F	S	F	J2.55R	14
2.05	2.00	2.10	2.10	2.00	2.05	2.05	2.15	2.30	2.60	2.70	2.60	15
2.10	2.05	2.05	1.95	2.00	U2.05S	1.95	U1.90F	F	U2.10F	U2.25F	F	16
2.15	2.05	2.05	2.25	2.35	2.25	2.05H	U2.05SH	U2.25SH	U2.40R	2.55	2.75	17
2.15	2.15	2.10	2.05	2.10	2.00	U2.05S	U2.00R	U2.10FS	U2.55S	2.70	2.65	18
2.15	2.15	2.15	2.15	2.10	2.00	J2.00S	U1.95F	2.15	2.35	2.45	2.70	19
2.15	2.05	2.10	2.10	2.15	2.05	2.05	2.00	2.15	2.35	2.70	2.90	20
2.10	2.10	2.10	U2.45R	2.35	2.15	1.95	1.90	F	F	F	U2.70R	21
2.25	2.25	2.25	2.30	2.40	U2.35S	2.15	F	F	F	F	U3.20F	22
2.20	2.15	2.20	B	2.30	2.25	2.00H	F	U2.05F	S	U2.50F	2.85	23
2.15	2.15	2.05	2.05	2.00	2.00	2.00	U1.95F	2.15	U2.45S	2.75	2.85	24
2.10	2.15	2.20	C	2.20	U2.15R	U1.95R	E1.85W	F	2.40	F	2.70	25
2.15	2.15	2.10	2.10	C	2.10	2.05	1.90	1.95F	2.15F	2.50	C	26
2.20	2.15	2.10	2.15	C	C	C	F	F	F	C	F	27
2.05	2.05	2.10	2.10	2.15	U2.15S	2.00	U2.00F	F	F	F	F	28
2.10	2.10	2.10	2.10	2.05	U2.00S	U2.00W	F	F	F	F	F	29
C	C	C	C	C	2.10	U2.00W	U2.00R	2.20	2.30	R	U2.45S	30
2.10	2.15	2.15	R	2.10	U2.00R	W	U1.90F	W	F	F	F	31
27	28	27	24	26	27	28	23	17	18	18	21	Count
2.15	2.15	2.10	2.15	2.15	2.05	2.00	2.00	2.15	2.40	2.60	2.70	Median
2.15	2.10	2.15	2.15	2.15	2.10	2.00	1.95	2.15	2.40	2.60	2.75	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : April 1958

TABLE 34

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	U9.0F	U8.5F	U8.8F	U9.6F	U10.2F	10.8F	U11.9S	13.8	14.8	15.1	14.7	13.7
2	U10.9F	F	F	10.2	F	F	12.2	13.4	13.9	12.9	12.7	12.4
3	U11.4F	10.5	10.2	10.2	9.6	8.8	10.2	12.9	14.1	U13.6R	13.0	U12.3R
4	U11.7F	F	U10.4F	F	9.6F	9.3	10.1	12.4	13.1	12.3	11.8	C
5	10.8	10.9	10.8	11.4	11.2	10.2	11.4	13.2	13.8	U13.6R	13.3	12.9
6	F	F	F	F	11.6	10.8	10.8	13.3	14.1	14.7	C	C
7	F	F	F	F	U10.7F	9.6F	U11.2S	U14.4F	14.8	15.1	U14.2R	13.1
8	F	U12.0F	U10.8F	F	9.9F	6.8	8.8	12.4	13.8	15.1	14.8	12.3
9	U13.5F	U11.6F	9.8	8.8F	8.4F	U8.6F	U10.3F	U12.7F	U14.4F	U14.7R	U14.0R	12.9
10	F	F	F	F	F	10.2	U11.3F	F	F	U14.2R	12.5	11.4
11	C	C	C	10.5	U9.0S	6.5	U8.5C	11.5	13.4	14.2	13.8	12.3
12	F	F	F	U9.8S	C	U6.8S	U8.1S	11.4	13.1	13.6	12.6	11.2
13	F	F	F	11.0	11.0	F	F	U10.9F	C	C	C	C
14	F	F	F	U9.7F	FS	FS	FS	FS	J13.1S	13.5	11.8	11.5
15	J12.0S	10.3	10.0	U10.2S	U9.3S	9.2	U9.4S	U11.9S	13.2	11.6	11.6	11.8
16	F	U9.0F	10.0	U10.0S	9.0	J7.6S	U9.0S	12.2	J14.2R	14.2	U13.0R	11.2
17	12.7	U11.9S	10.6	U9.6S	7.6	6.4	8.6	U11.8S	14.0	U15.0R	14.9	14.6
18	11.5	11.0	R	U10.0R	10.4	10.4	12.1	U13.3R	U13.7R	U13.4R	U13.2R	U12.9R
19	13.0	11.3	10.9	10.1	10.1	U9.7S	10.6	10.5	12.8	13.8	R	13.2
20	12.4	11.0	U9.3S	8.4	8.4	6.8	8.4	11.9	13.2	12.6	11.6	11.8
21	12.1	10.1	10.3	9.1	7.8	7.1	U9.8S	12.0	13.3	12.5	12.2	11.9
22	U9.6S	U9.6S	U9.3F	U9.5F	8.1	6.5	U9.9S	12.7	14.0	14.1	12.7	12.0
23	U11.0F	11.6	U11.7S	10.6	8.3	5.5	8.3	11.5	12.7	12.8	11.9	11.6
24	F	F	F	U11.8S	11.3	10.0	C	C	C	C	C	C
25	F	11.5	10.8	J11.0F	10.9	9.4	10.5	12.3	13.0	13.2	12.8	12.6
26	F	F	U9.6F	U9.8S	9.2	7.3	8.7	11.5	12.8	13.0	12.0	11.8
27	F	U9.6F	F	F	U10.0F	U9.5F	10.5	12.6	C	14.0	13.0	12.2
28	F	U10.6F	F	12.6	F	U11.8F	U12.0F	U13.2F	13.8	13.6	12.6	12.8
29	11.0	10.0	10.0	10.6	11.3	U10.3S	11.2	13.5	14.4	15.2	14.6	13.7
30	U10.4S	10.0	10.4	U9.7S	8.8	8.0	10.2	12.9	14.3	14.4	12.9	12.0
Count	16	19	18	24	25	27	27	27	26	28	26	26
Median	U11.4	10.6	10.2	10.2	9.6	9.2	10.2	12.4	13.8	13.7	12.8	12.3
Mean	U11.4	10.8	10.2	10.2	9.7	8.7	10.1	12.4	13.7	13.8	13.0	12.4

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : April 1958

TABLE 34—*contd.*

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
12.6	12.4	12.8	13.0	12.6	12.6	U11.0W	U8.4F	U8.2F	F	F	F	1
11.4	11.9	12.4	12.7	12.4	12.5	U11.9S	11.4	U11.2F	U11.8S	12.8	12.9	2
11.9	C	U12.0R	12.4	12.1	U12.1S	U11.9S	U10.8W	F	F	F	F	3
C	11.8	12.2	12.4	12.6	12.0	11.4	U9.8W	8.0	U9.2F	F	U9.3F	4
12.2	12.0	12.4	12.7	12.5	12.6	12.6	11.6H	F	1F	F	F	5
C	11.6	12.3	12.9	13.2	13.3	12.9	11.4	U10.6F	U10.8F	U11.3F	U12.1F	6
13.0	12.6	12.6	12.7	13.0	13.0	U12.4R	U10.2W	F	F	F	F	7
11.3	11.4	11.7	12.3	12.5	12.8	12.7	11.2	F	F	U13.0F	13.8	8
12.4	12.1	11.8	12.0	U12.0R	U11.8S	C	U10.6R	10.1F	F	12.6	12.4	9
10.9	10.7	10.9	C	11.5	U11.6S	C	C	C	C	C	C	10
11.8	11.8	12.3	13.0	13.6	13.5	12.9	U11.4F	F	F	F	C	11
10.6	10.6	11.0	11.8	U12.0S	U11.8S	11.3	U9.5W	F	F	F	U10.9F	12
C	C	C	C	C	12.8	12.2	FS	F	F	F	F	13
11.5	11.2	U11.5S	J12.0S	12.6	13.0	12.8	11.3	U10.4F	F	U12.1F	12.3	14
11.2	11.1	11.4	12.2	12.8	12.7	U11.6S	U9.8S	F	F	F	F	15
10.8	11.3	12.6	12.9	13.1	13.4	13.4	12.2	U12.5R	U14.2R	14.8	14.0	16
14.0	13.8	13.8	14.0	14.0	U13.8R	U13.2R	11.8	U11.6S	12.6	13.0	U13.0R	17
U11.8R	U11.8R	U11.9R	11.9	12.4	12.7	12.8	12.0	U12.3F	13.4	R	14.2	18
12.8	12.6	12.8	12.8	13.1	13.7	13.1	U11.6S	11.0	U11.8S	12.2	12.8	19
11.1	11.2	11.8	12.2	12.3	12.4H	U11.6S	10.7	10.9	11.5	12.2	C	20
11.5	11.5	11.5	11.8	11.5	11.4	11.0	10.1	9.2	F	U8.9F	U8.9F	21
11.8	12.0	12.4	12.8	12.7	12.6	12.5	11.0	J10.0F	U10.4F	10.6	11.4	22
11.8	11.8	12.1	12.4	12.5	12.6	J11.8S	10.4	U9.6F	F	U11.5S	12.6	23
C	13.1	13.8	14.0	13.8	14.0	13.5	11.7	U11.3F	F	13.0	F	24
12.4	12.5	12.2	12.0	12.2	12.2	11.5	9.2	9.0	F	F	C	25
11.6	11.6	11.8	11.8	12.0	U11.5S	U10.6S	U8.6F	F	F	F	F	26
12.0	12.0	12.4	12.0	11.9	11.4	U10.5S	U8.7W	F	F	F	F	27
12.8	12.2	11.8	12.0	12.4	12.4	U11.5S	U10.6W	F	U10.5F	10.9	11.4	28
12.9	13.0	13.4	13.6	U13.3R	12.8	11.3	9.4	9.3	10.6	U11.2R	U11.4S	29
12.0	12.1	12.1	12.4	12.5	12.6	12.0	11.0	10.2	11.5	U11.7S	12.0	30
26	28	29	28	29	30	28	28	18	12	16	17	Count
11.8	11.8	12.2	12.4	12.5	12.6	12.0	10.9	U10.3	U11.5	12.2	12.3	Median
11.9	11.9	12.2	12.5	12.6	12.6	12.1	10.6	U10.3	U11.5	12.0	12.1	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : April 1958

TABLE 34—contd.

Ionospheric Data

75.0°E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	U8.8F	U8.4F	U9.2F	U9.6F	U10.6F	10.8	13.0	14.3	U15.1S	15.1	13.8	13.0
2	10.5	F	U9.8F	10.6	F	F	13.3	13.8	13.6	12.6	12.9	12.2
3	11.0	10.4	10.4	10.1	9.3	8.7	11.4	13.7	14.1	13.4	12.7	12.1
4	11.4	11.0F	10.4	F	9.8	8.8	11.3	13.0	12.7	12.0	C	C
5	U10.8F	10.8F	11.3	11.4	10.8	9.8	12.6	13.5	14.0	13.7	13.1	12.6
6	F	F	U10.8F	11.4	11.3	10.1	12.1	13.4	14.3	14.5	C	C
7	F	F	F	F	U10.0F	9.6F	13.0	14.5F	15.0	14.8	13.3	12.9
8	F	U11.4F	10.4F	F	8.4	6.3	10.8	13.2	14.4	15.1	13.3	11.7
9	F	10.7	U9.4F	F	F	8.7F	U11.7F	U13.9F	U14.4F	14.8	U13.0R	12.8
10	F	F	F	F	F	10.5F	F	F	U14.4F	13.4	12.0	11.1
11	C	C	C	9.9	7.6	U6.7S	10.3	12.6	14.0	14.1	13.1	C
12	F	10.6	F	U9.1S	7.6	U5.8F	U9.7S	12.4	13.5	13.2	11.7	10.9
13	F	F	U10.4F	11.0	F	F	F	U12.2F	C	C	C	C
14	F	U10.2F	U9.4F	F	U9.9FS	FS	FS	U12.1FS	13.5	12.9	11.4	11.5
15	U11.1F	10.0	10.3	9.6	9.1	8.6	10.7	12.8	12.8	11.2	11.8	11.4
16	U8.8F	U9.4S	10.2	U9.6S	8.7	7.2	10.8	13.4	J14.2R	14.2	11.6	11.0
17	12.3	U11.5S	U10.2S	8.6	7.4	U6.2S	U10.3S	13.0	14.5	15.0	14.8	14.2
18	10.8	U10.6R	U11.1R	10.3	10.4	11.0	13.2	13.3	U13.1R	U13.4R	U13.2R	U11.8R
19	U11.6S	11.0	10.3	10.2	10.1	U9.8S	10.5	11.4	13.8	13.8	13.4	12.8
20	11.6	10.4	8.8	8.3	U7.4S	U6.0S	10.4	12.6	13.0	11.8	11.8	11.6
21	C	10.4	U9.7S	8.6	7.2	8.0	11.2	12.8	13.0	12.4	J12.2R	11.8
22	J9.6S	F	U9.4F	9.4	J7.2S	7.7	11.4	13.4	14.4	13.8	12.4	11.9
23	11.2	12.0	11.2	9.5	6.8	6.2	10.1	12.4	12.8	12.1	11.6	11.6
24	U11.4F	F	U10.8F	12.0	10.6	C	C	C	C	C	C	C
25	11.4	10.7	11.0	11.2	10.2	9.2	11.4	13.0	13.2	12.8	12.7	12.4
26	F	F	U9.6F	9.8	8.3	U7.2S	10.4	12.5	J13.2R	12.4	11.8	11.6
27	U9.6F	U10.4F	F	F	U10.4F	U9.2S	11.5	13.6	C	13.8	12.6	12.2
28	F	U11.2F	F	12.5	U12.2F	U11.2F	U13.0F	U13.6F	13.6	12.8	12.6	12.9
29	10.4	10.0	U10.2S	11.0	10.8	10.2	12.4	14.0	14.8	15.1	14.2	13.4
30	U10.1S	10.5	U10.0S	U9.2S	8.5	8.6	U11.7S	13.8	14.5	14.2	12.4	11.9
Count	18	21	24	23	26	26	26	28	27	28	26	25
Median	U10.9	10.6	10.2	9.9	9.6	8.7	11.4	13.2	14.0	13.6	12.6	11.9
Mean	U10.7	10.6	10.2	10.1	9.3	8.5	11.5	13.2	13.8	13.5	12.7	12.1

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : April 1958

TABLE 34—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
12.3	12.6	13.0	12.8	12.6	U11.8s	U9.6W	U8.0F	F	U10.2F	F	F	1
11.4	12.2	12.4	12.8	12.5	12.6	U11.7W	11.0	U11.5s	U11.9s	13.2	11.9	2
11.8	C	12.2	12.3	12.0	U11.9s	U11.5W	F	F	F	F	F	3
11.6	12.0	12.3	12.6	12.4	11.7	U10.7W	U9.0W	F	U9.2F	F	10.5	4
12.0	12.1	12.6	12.6	12.6	12.6	12.2	U10.6RH	F	F	F	F	5
C	11.8	12.7	13.0	13.2	13.2	12.3	U10.9R	U10.6F	U10.8F	U11.5F	F	6
12.8	12.2	12.7	12.7	13.0	12.8	11.6	F	F	F	F	F	7
11.2	11.6	11.9	12.3	12.7	12.8	12.2	F	F	F	U13.2F	13.8	8
U12.1R	11.8	11.8	11.9	U11.8s	U11.6s	11.1	U10.1R	10.1F	U11.7s	12.3	F	9
10.8	10.8	C	11.5	U11.6s	C	C	C	C	C	C	C	10
11.8	12.0	12.6	13.4	13.7	13.2	J12.2s	F	F	F	F	C	11
10.6	10.8	11.5	11.9	12.0	U11.4s	U10.8s	F	F	U10.0F	F	U10.6F	12
C	C	C	C	C	12.6	11.3	F	F	F	F	F	13
11.3	11.3	11.7	12.3	12.8	12.9	12.4	F	U10.7F	FS	F	U12.5F	14
11.2	11.1	11.7	12.5	12.8	12.4	J11.1s	U8.6F	F	F	F	F	15
10.8	12.0	12.8	13.0	U13.2R	13.5	12.9	12.0	13.7	U14.4R	U14.2s	13.4	16
19.7	13.8	13.8	14.0	14.0	U13.4R	U13.0R	U11.4R	U11.8s	12.8	R	12.4	17
U11.8R	U11.8R	12.0	12.1	12.6	12.6	12.5	12.0	13.2	13.8	14.0	14.0	18
12.5	12.6	12.6	13.0	13.2	13.8	12.4	11.0	11.4	U11.9s	U12.6R	U13.0R	19
11.1	11.4	12.0	12.3	12.4	12.2	11.1	10.7	11.0	U11.8s	12.7	13.1	20
11.5	11.5	11.6	11.8	11.6	11.4	10.6	U9.6s	F	U9.0F	U9.0F	U9.0F	21
12.0	12.2	12.6	12.8	12.5	12.5	12.1	10.2	F	U10.4F	U11.0F	F	22
11.8	12.0	12.2	J12.3R	12.4	12.4	11.1	9.8	F	U10.9F	F	U12.2F	23
12.7	13.5	13.9	13.8	13.9	13.8	12.9	11.2	F	13.0	U12.6F	F	24
12.4	12.3	12.0	11.9	12.2	11.8	11.0	9.2	U9.4F	F	C	F	25
11.6	11.8	U11.8s	12.0	U11.6s	11.0	U10.0W	F	F	F	F	F	26
C	12.3	12.4	12.0	11.8	10.8	U9.6s	F	U8.6F	F	U11.5F	F	27
12.4	12.0	11.8	12.0	12.5	J12.0s	U11.2s	U9.6F	F	U10.7s	11.4	U11.4s	28
13.0	13.1	13.6	13.5	13.0	U12.0s	10.2	8.9	U9.6s	U11.5s	11.4	11.0	29
12.2	12.0	12.2	U12.4R	U12.5R	12.4	U11.6s	10.6	11.0	U11.8s	U11.8s	U11.5s	30
27	28	28	29	29	29	29	20	13	18	15	15	Count
11.8	12.0	12.2	12.4	12.5	12.4	11.5	10.4	U11.0	11.6	12.3	12.2	Median
11.9	12.0	12.4	12.5	12.6	12.4	11.5	10.2	U11.0	11.4	12.2	12.0	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : April 1958

TABLE 35

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	C	C
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L _H	L _H
15								L	L	L	L	L
16								L	L	L _H	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L _H
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L _H
30								L	L	L	L	L
Count
Median
Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : April 1958

TABLE 35—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L ^H	L	L	L								1
L	L	L	L	L	L							2
L	C	L	L	L								3
C	L	L	L	L								4
L	L	L	L	L								5
C	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L ^H	L	L							11
L	L ^H	L	L	L	L							12
C	C	C	C	C	L							13
L	L ^H	L ^H	L	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L ^H	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L	L	L	L	L	L							30
..	..	..	..	..	..							Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : April 1958

TABLE 35—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7							L	L	L	L	L	L
8							L	L	L	L	L	L
9							L	L	L	L	L	L
10							L	L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L _H
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24							C	L	L	L	L	L
25								L	L	L	L	L
26							L	L	L	L	L	L
27							L	L	L	L	L	L
28							L	L	L _H	L	L	L
29							L	L	L _H	L _H	L _H	L _H
30							L	L	L	L _H	L _H	L _H
Count
Median
Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF1
 Unit : Mc
 Month : April 1958

TABLE 35—*contd.*
 Ionospheric Data
 75°0'E Mean Time

Latitude : 10°2' N
 Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L L L L L	L L C L L	L L L L L	L L L L L	L L L L L								1
C L L L L	L L L L L	L L L L L	L L L L L	L L L L L								2
L L _{LH} C L L	L L C L L _{LH}	L _{LH} L C L _{LH} L _{LH}	L L C L L	L L C L L								3
L L L L L _{LH}	L L L L L _{LH}	L L L L L	L L L L L	L L L L L								4
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								5
L C L L L	L L L L L _{LH}	L _{LH} L L L L	L L L L L	L L L L L _{LH}								6
												7
												8
												9
												10
												11
												12
												13
												14
												15
												16
												17
												18
												19
												20
												21
												22
												23
												24
												25
												26
												27
												28
												29
												30
..	..	..	..	..								Count
..	..	..	..	..								Median
..	..	..	..	..								Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE
Unit : Mc
Month : April 1958

TABLE 36
Ionospheric Data
75.0°E Mean Time

Latitude : 10.2° N
Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								R	R	A	A	A
2								3.1	A	A	B	A
3								3.1	A	A	A	A
4								A	A	A	A	C
5								A	A	A	A	A
6								3.0	A	A	C	C
7								2.9	A	A	A	A
8								3.0	A	A	A	A
9								3.0	A	A	A	A
10								A	A	A	B	A
11								2.8	A	A	A	A
12								A	A	A	A	A
13								2.9	C	C	C	C
14								A	A	A	A	A
15								U2.9A	A	A	A	A
16								2.8	A	A	A	B
17								3.0	3.4	A	A	A
18								A	A	B	B	B
19								2.3	A	A	B	B
20								A	A	A	A	A
21								3.0	A	A	A	A
22								2.1	2.4	A	A	A
23								A	A	A	A	C
24							C	C	C	C	C	C
25								3.0	A	A	A	A
26							2.1	A	A	A	A	A
27							2.3 ^{II}	A	C	A	A	A
28							A	A	A	A	A	B
29							2.1	A	A	A	A	A
30								3.1	A	A	A	A
Count							3	16	2	..	..	..
Median							..	3.0	..	..	..	..
Mean							..	2.9	..	..	..	..

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc

Month : April 1958

TABLE 36

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	B	A							1
A	A	A	A	A	A							2
A	C	A	A	A	A							3
G	A	A	A	A	A							4
A	A	A	A	3.6	A							5
C	B	A	A	R	F							6
A	A	A	A	B	A							7
A	A	A	A	U3.5A	A							8
A	A	A	A	A	3.0							9
A	A	A	A	A								10
A	A	A	A	3.3	A							11
A	C	A	A	A	A							12
A	A	A	A	A	A							13
A	A	A	A	A	A							14
A	A	A	A	A	A							15
A	A	A	A	A	A							16
A	A	A	A	A	A							17
B	B	A	A	A	A							18
B	A	A	U3.8A	A	A							19
A	A	A	A	A	A							20
A	A	A	A	A	A							21
A	A	A	A	A	2.4							22
A	A	A	A	A	2.3							23
C	A	A	A	A	A							24
A	A	A	A	A	A							25
A	A	A	A	A	A							26
A	B	A	A	B	A							27
A	A	A	A	A	A							28
A	A	A	A	A	A							29
A	A	A	A	A	A							30
..	..	..	I	3	3							Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : f_oE
Unit : Mc
Month : April 1958

TABLE 36—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1									3.6	A	A	A
2								2.7	A	A	B	B
3								2.6	A	A	A	A
4								2.5	A	A	A	C
5									A	A	A	A
6									3.3	A	A	C
7								2.6	U3.4A	A	A	A
8								2.6	A	A	A	A
9									A	A	A	A
10								U2.7R	A	A	A	A
11								2.4	A	A	A	C
12								2.6H	A	A	A	A
13								2.5	U3.3A	C	C	C
14								2.5	A	A	A	A
15								U2.6R	A	A	A	A
16								2.6	3.3	A	A	A
17								2.5	3.3	A	A	A
18									A	A	B	B
19									A	A	A	A
20								2.8	A	A	A	A
21								2.6	A	A	A	A
22								2.4	A	A	A	A
23								2.6H	A	A	A	A
24								C	C	C	C	C
25								2.6	U3.2A	3.8	A	A
26								2.8H	A	A	A	A
27								A	A	C	A	A
28								A	A	A	A	B
29								2.6	A	3.8	A	A
30								R	3.3	A	A	A
Count								20	8	2	..	..
Median								2.6	3.3	..	..	..
Mean								2.6	3.3	..	..	..

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE
Unit : Mc
Month : April 1958

TABLE 36—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A A A C A	A A A A A	A A C A A	A A A A A	A A A A A	A R A A A							1
												2
												3
												4
												5
C A A A A	C B A A A	B A A B A	A A A A A	B B A A A	U ₃ .4R A							6
												7
												8
						R C						9
												10
A A C A A	A A C A A	A A C A A	A A C A A	U ₃ .4R A C A A	U ₃ .0A A C A A							11
												12
												13
												14
												15
A A B B A	A A B A A	A A B A A	A A A A A	R A A A A	3.2 A A U ₃ .1A A							16
												17
												18
												19
												20
A A A C A	A A A A A	A A A A A	A A A A A	A A A A A	A A 2.7 A 3.0	A F						21
												22
												23
												24
												25
A A A A A	A C A A A	A A A A A	A A A A A	A A A A A	A A A A A							26
												27
												28
												29
												30
..	..	..	..	I	6	..						Count
..	..	..	..	..	3.0	..						Median
..	..	..	..	..	3.1	..						Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : April 1958

TABLE 37

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3.9	G	11.0	11.2	12.4
2								8.4	10.6	11.0	10.6	12.0
3		4.0						G	10.6	11.0	12.0	12.0
4								8.8	11.0	12.0	12.2	C
5								8.6	12.0	12.0	12.0	12.6
6								5.0	10.0	11.4	C	C
7								G	11.0	11.8	12.6	12.4
8		5.0						G	9.8	11.0	12.0	12.2
9	6.0			5.4	3.4		6.0	7.4	9.8	11.4	12.2	12.0
10					7.0			8.4	10.4	11.0	12.0	12.0
11	C	C	C					G	9.7	11.1	12.9	12.6
12					C			8.0	10.1	12.0	12.6	12.0
13								u8.18	C	C	C	C
14								u6.28	11.0	12.0	12.1	12.3
15								8.2	11.1	11.8	12.2	11.8
16								G	9.4	11.4	11.5	12.0
17								G	G	10.8	10.0	11.6
18								8.0	8.6	9.6	10.0	9.0
19								G	8.4	10.0	9.0	11.4
20								8.4	10.0	11.6	12.8	12.6
21				C	C			5.6	11.0	12.0	12.5	12.3
22							G	6.5	10.6	11.2	12.2	12.4
23								u8.48	11.0	11.8	12.8	12.4
24							C	C	C	C	C	C
25								9.0	11.0	11.4	12.2	12.4
26							2.3	8.4	11.0	11.6	12.6	12.4
27							G	8.2	C	12.0	12.4	12.4
28							4.0	4.0	11.0	12.0	12.2	12.0
29							2.2	4.0	10.0	11.0	12.6	12.2
30				u6.48				8.3	11.0	11.4	12.6	12.4
Count	1	2	..	2	2	..	6	29	27	28	27	26
Median	..	..	..	..	..	..	2.2	7.4	10.6	11.4	12.2	12.2
Mean	..	..	..	..	..	..	..	7.3	10.4	11.4	11.9	12.1

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : April 1958

TABLE 37

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2'N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
12.4	11.2	12.0	12.0	9.8	8.6							1
12.0	11.4	11.8	10.6	6.8	8.0							2
12.2	C	11.0	11.0	9.2	8.2							3
C	11.6	11.6	12.0	9.6	8.6							4
11.8	12.0	11.4	12.0	9.6	8.2							5
C	11.0	11.0	11.0	7.4	7.0				2.2			6
12.4	12.2	11.6	12.0	10.6	8.0				2.2	2.6		7
12.4	12.0	12.1	12.0	7.0	8.4					3.0		8
12.2	12.4	12.0	12.0	10.0	8.0						7.0	9
12.0	12.0	11.8	10.4	9.0	6.4	C	C	C	C	C	4.8	10
											C	
12.0	12.6	12.1	11.1	8.2							C	11
12.1	12.4	12.1	11.7	10.1	8.28							12
C	C	C	C	C	8.0							13
12.0	12.3	12.0	11.7	9.0	8.18							14
12.0	11.8	12.0	11.0	9.4	8.4					3.9		15
12.0	11.0	10.6	9.4	9.6	8.0							16
12.2	11.8	11.5	10.6	10.1	8.0							17
8.4	8.2	11.2	14.0	10.6	8.2				4.4			18
9.0	10.4	11.8	11.6	9.6	7.0				3.8	4.0		19
12.6	13.0	12.6	12.0	10.0	9.0							20
12.7	12.6	12.6	11.68	10.58	8.0	S						21
12.2	11.8	11.4	11.0	8.3	7.0					3.8		22
12.1	12.0	12.0	11.6	8.5	8.0				2.9	6.0	3.8	23
C	12.0	10.6	11.5	8.6	8.4							24
11.8	12.6	12.0	12.0	9.0	8.0				4.78	4.7	5.28	25
											C	
12.2	12.3	12.0	12.0	9.2	8.0							26
12.4	11.7	12.0	12.0	9.8	8.0							27
12.2	12.0	11.8	12.2	9.8	8.6					2.9		28
11.2	12.4	11.6	12.2	9.8	8.2					2.8		29
3.0	12.2	12.0	12.2	9.6	7.0				4.68			30
26	28	29	29	7	29	..	..	..	7	9	4	Count
12.2	12.0	11.8	11.7	9.6	8.0	..	..	..	3.8	3.8	..	Median
11.9	11.8	11.7	11.6	9.2	8.0	..	..	..	3.5	3.7	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 Seconds

Characteristic : foEs

Unit : Mc

Month : April 1958

TABLE 37—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							3.4	G	11.0	11.0	12.0	12.4
2							G	8.6	11.0	12.0	12.0	12.2
3	2.5						G	10.4	11.0	12.0	12.0	12.0
4							G	10.6	12.6	12.4	C	C
5								11.0	12.0	12.2	12.0	12.2
6								G	11.0	12.2	C	C
7							G	8.8	11.8	12.4	12.0	12.2
8	3.8	2.6	3.0				G	6.8	11.0	11.6	12.0	12.0
9				5.0	4.0			9.0	10.4	12.2	12.0	12.0
10							G	11.0	11.4	12.2	12.2	12.0
11	C	C	C				G	9.0	10.7	12.0	12.2	12.4
12							G	8.7	11.3	12.2	12.1	12.6
13							G	u9.6s	C	C	C	C
14							G	u9.6s	11.8	11.9	12.2	11.8
15							G	u10.0s	11.2	12.0	12.0	11.7
16							G	G	11.0	11.2	12.2	11.8
17							G	G	9.6	12.0	12.0	1.0
18								7.6	8.6	10.0	9.0	9.6
19								7.6	10.0	10.0	11.0	11.0
20							7.0	10.2	10.4	12.0	12.6	12.8
21				u6.8s			3.0	10.6	11.5	12.4	12.5	12.4
22							2.7	8.4	11.0	11.7	12.2	12.0
23							G	10.4	11.2	12.5	12.4	12.6
24						5.2	C	C	C	C	C	C
25				9.0			7.6	10.8	11.4	12.0	12.0	12.6
26							G	11.0	11.0	12.0	12.4	12.6
27							5.6	10.0	C	12.3	12.6	12.4
28							6.6	10.2	11.4	12.6	12.0	11.8
29							6.0	9.8	G	12.0	12.6	12.0
30			3.4	4.0			G	G	11.6	12.4	12.4	12.2
Count	2	1	2	4	1	1	24	29	27	28	26	26
Median	..	..	..	..	..	..	..	9.6	11.0	12.0	12.0	12.1
Mean	..	..	..	..	..	..	5.2	9.6	11.0	11.9	12.0	12.0

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : April 1958

TABLE 37—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
12.2	12.0	U11.0C	10.0	9.8	8.6							1
12.0	11.4	11.0	9.0	8.0								2
12.0	C	11.4	10.4	9.0								3
12.2	12.0	12.1	10.2	9.8	S							4
12.0	12.0	11.4	10.2	8.8								5
C	11.2	10.8	7.4	7.0								6
12.2	12.0	12.2	B	9.0	7.8				2.4			7
12.1	12.0	11.8	8.6	8.2	7.6				3.0	5.2	8.6	8
12.4	12.0	12.6	11.0	9.0	6.0					3.4		9
12.2	12.6	12.0	10.0	8.0	C	C	C	C	C	C	C	10
12.2	12.4	12.0	8.9	8.1								11
12.2	12.2	12.2	11.0	9.2								12
C	C	C	C	C								13
12.2	11.8	12.2	12.0	11.8	9.6	8.6			2.4			14
12.0	12.1	11.2	10.0	9.1					4.0			15
12.0	8.0	8.8	G	6.4	4.2							16
12.0	11.0	9.6	9.6	8.6	U5.6s							17
8.4	G	12.0	11.8	10.6	8.2			8.4				18
11.0	10.4	11.4	9.6	8.0	S				6.0			19
12.6	12.8	12.8	11.4	9.0	S							20
12.4	11.6	12.2	10.4	U9.3s	U7.0s				1.9			21
12.0	12.2	10.5	9.0	8.6	6.6				6.0	5.0		22
12.0	12.0	11.4	9.4	8.4	6.8					3.0		23
12.0	11.4	9.8	9.5	8.9	S				U6.0s	U7.0s	4.0	24
12.0	12.0	12.0	11.0	8.0	S					C		25
12.2	12.0	11.4	10.4	9.0								26
C	12.0	12.0	9.6	8.6	U7.0s							27
12.0	12.0	12.1	9.6	8.8	S							28
12.4	11.4	12.2	11.0	8.6	7.0							29
12.2	12.0	12.0	10.0	8.6				3.3	U4.6s			30
27	28	29	28	29	13	1	..	2	9	5	2	Count
12.1	12.0	12.0	10.0	8.8	7.0	..	..	..	4.0	5.0	..	Median
12.0	11.7	11.5	10.0	8.8	7.1	..	..	..	4.0	4.7	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

TABLE 38

Latitude : 10°2' N

Unit : Mc

Ionospheric Data

Longitude : 77°5' E

Month : April 1958

75°0'E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3.3		4.2	4.5	4.6
2								3.1	3.8	4.4		5.0
3		2.0							3.8	4.3	4.6	4.8
4								3.1	3.8	4.2	4.4	C
5								3.1	3.8	4.2	4.4	4.7
6								3.2	3.7	4.2	C	C
7									3.7	4.3	4.4	4.5
8		1.9							3.6	4.2	4.4	4.5
9	2.5			2.1	2.2		2.7	3.0	3.7	4.2	4.5	4.6
10								3.2	3.8	4.2	4.6	4.6
11	C	C	C						3.7	4.1	4.4	4.7
12					C			2.9	3.6	4.2	4.3	4.6
13								3.0	C	C	C	C
14								3.0	3.5	4.0	4.2	4.4
15									3.7	4.1	4.3	4.4
16									3.6	4.0	4.2	
17										4.0	4.2	4.4
18								3.2	3.8	4.2		
19									3.6	4.2		
20								3.0	3.6	4.0	4.4	4.6
21				C	C				3.6	4.1	4.3	4.5
22								3.1	3.7	4.1	4.2	4.4
23								3.0	3.6	4.0	4.2	4.4
24							C	C	C	C	C	C
25								3.2	3.7	4.2	4.5	4.7
26								3.2	3.8	4.3	4.4	4.6
27								3.2	C	4.2	4.4	4.6
28							2.6	3.2	3.8	4.2	4.5	
29								3.3	3.8	4.2	4.4	4.6
30				3.0				3.2	3.8	4.4	4.4	4.6
Count	1	2	..	2	1	..	2	20	25	28	24	22
Median	..	..	..	..	..	..	..	3.2	3.7	4.2	4.4	4.6
Mean	..	..	..	..	..	..	..	3.1	3.7	4.2	4.4	4.6

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : April 1958

TABLE 38

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
4.6	4.8	4.5	4.2		3.1							1
4.8	4.6	4.5	4.1	3.8	3.0							2
4.8	C	4.4	4.0	3.7	3.0							3
C	4.6	4.4	4.0	3.6	3.0							4
4.6	4.7	4.4	4.0	3.6	3.0							5
C	5.0	4.6	4.0	3.7	3.0				1.9			6
4.7	4.7	4.3	4.0	4.4	3.0				2.0	1.6		7
4.6	4.4	4.4	4.0	3.6	2.9					1.7		8
4.8	4.5	4.4	4.0	3.6	3.0						2.2	9
4.6	4.7	4.3	4.0	3.6	2.9	C	C	C	C	C	2.2	10
											C	
4.5	4.3	4.3	4.0	3.6								11
4.4	4.3	4.1	3.9	3.5	2.9							12
C	C	C	C	C	3.0							13
4.4	4.4	4.2	3.9	3.6	2.8							14
4.5	4.4	4.1	3.8	3.5	2.9					2.3		15
4.4	4.4	4.0	3.8	3.4	2.8							16
4.4	4.4	4.2	3.8	3.4	2.8							17
		4.4	7.0	4.8	3.8							18
4.8	4.8	4.4	4.0	3.6	3.0				2.6			19
4.6	4.6	4.3	4.0	3.6	3.0							20
4.4	4.4	4.2	3.8	3.4	2.8							21
4.5	4.4	4.2	3.8	3.6	2.8				2.2	2.8	2.6	22
4.5	4.3	4.2	3.9	3.4	2.9							23
C	4.4	4.1	4.4	5.6	3.1				2.6	3.0	1.9	24
4.6	4.6	4.4	4.0	3.6	3.0						C	25
4.5	4.7	4.2	4.0		3.0							26
4.6		4.5	4.0	3.6	3.0					2.0		27
4.6	4.5	4.2	4.0	3.6	3.0							28
4.6	4.6	4.4	4.0	3.6	3.0							29
4.6	4.5	4.4	4.0	3.6	3.0				2.4			30
25	26	29	29	27	29	..	..	..	6	6	4	Count
4.6	4.5	4.3	4.0	3.6	3.0	..	..	..	2.3	2.2	..	Median
4.6	4.5	4.3	4.1	3.7	3.0	..	..	..	2.3	2.2	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : April 1958

TABLE 38—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2.9		4.2	4.5	4.6	4.6
2								3.5	4.1			4.9
3								3.6	4.1		4.8	4.9
4								3.5	3.8	4.4	C	C
5								3.4	4.0	4.4	4.6	4.7
6									4.0	4.3	C	C
7	2.2							3.4	4.0	4.3	4.6	4.6
8	1.7	2.0	2.0					3.4	4.0	4.3	4.6	4.7
9				2.4	2.5			3.4	4.0	4.3	4.6	4.6
10								3.7	4.0	4.4	4.6	4.6
11	C	C	C									
12								3.3	4.0	4.3	4.6	4.6
13								3.3	4.0	4.2	4.4	4.5
14								3.2	C	C	C	C
15								3.3	3.8	4.1	4.4	4.5
16								3.3	3.8	4.2	4.4	4.5
17									4.0	4.0	4.4	4.6
18									4.0	4.0	4.3	4.4
19								3.6	4.1	4.3		
20								3.1	3.9	4.4	4.6	4.9
21							2.8	3.5	4.0	4.2	4.5	4.6
22				2.2			3.0	3.4	4.0	4.2	4.4	4.5
23								3.4	4.0	4.2	4.4	4.4
24							C	3.4	3.9	4.2	4.4	4.4
25				2.4			2.8	C	C	C	C	C
26								3.4	4.0	4.4	4.5	4.7
27								3.4	4.0	4.4	4.6	4.6
28							2.8	3.6	C	4.4	4.7	4.8
29							2.8	3.6	4.0	4.4	4.4	4.8
30			2.9	1.7			2.8	3.6	4.2	4.2	4.4	4.6
Count	2	1	2	4	1	..	7	24	26	26	23	25
Median	..	..	..	..	..	..	2.8	3.4	4.0	4.3	4.6	4.6
Mean	..	..	..	..	..	..	2.8	3.4	4.0	4.3	4.5	4.6

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : April 1958

TABLE 38—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.6	4.6	4.2	4.0	3.6	2.6							1
4.8	4.5	4.3	4.0	3.5								2
4.7	C	4.2	3.9	3.2								3
4.7	4.6	4.2	4.0	3.3	2.6							4
4.8	4.6	4.3	4.0	3.3								5
C	4.8	4.4	4.0	3.4					2.3			6
4.9	4.4	4.3	3.4	2.6								7
4.5	4.4	4.2	3.8	3.4	2.4				2.0	2.2	2.8	8
4.6		4.2	3.9	3.4	2.4					2.1		9
4.7	4.4	4.2	3.8	3.4	C	C	C	C	C	C	C	10
4.6	4.4	4.2	3.8	3.5								11
4.4	4.3	4.1	3.8	3.3							C	12
C	C	C	C	C								13
4.4	4.2	4.1	3.7	3.2					2.1			14
4.6	4.2	4.0	3.7	3.1					2.1			15
4.4	4.2	4.0			3.1							16
4.3	4.3	4.2	3.8	3.2								17
		4.2	4.4	4.8	3.8			2.1				18
4.6	4.6	4.2	3.9	3.2								19
4.6	4.4	4.2	3.8	3.3	2.4				2.0			20
4.5	4.4	4.0	3.8	3.2	2.3				1.5			21
4.4	4.4	4.0	3.7	3.2	2.4				2.2			22
4.4	4.3	4.0	3.7	3.2	2.4					2.8		23
C	4.6	4.4	4.0	4.9	4.0					2.2		24
4.6	4.4	4.1	4.0	3.3					2.4	3.0	2.1	25
										C		26
4.8	4.4	4.3	3.8	3.6								27
C	4.4	4.2	4.0	3.4								28
4.7	4.4	4.2	4.0	3.4								29
4.6	4.5	4.3	3.8	3.2	2.5							30
4.5	4.4	4.4	4.0	3.6				2.3	2.0			
25	26	29	27	28	13	..	..	2	9	5	2	Count
4.6	4.4	4.2	3.9	3.4	2.5	..	..	..	2.1	2.2	..	Median
4.6	4.4	4.2	3.9	3.4	2.7	..	..	..	2.1	2.5	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : April 1958

TABLE 39
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2.2	2.4	2.4	1.9	2.0	2.2	2.4	2.7	3.0	3.8	4.0	3.6
2	2.0	2.0	2.0	1.8	1.7	2.0	2.2	2.1	2.8	3.3	5.6	4.0
3	1.8	1.5	1.9	1.5	2.0	2.0	2.1	2.4	3.0	3.4	3.5	3.8
4	2.0	1.8	1.8	1.8	1.6	1.6	2.2	2.3	2.6	3.0	3.1	C
5	1.7	1.8	1.7	1.5	1.7	1.7	2.3	2.3	2.8	3.1	3.3	3.3
6	2.1	2.1	2.0	1.9	1.6	1.7	2.2	2.4	2.5	3.0	C	C
7	2.1	2.0	2.1	2.1	2.0	1.7	2.2	2.5	2.8	3.0	3.1	3.4
8	1.8	1.8	1.9	2.2	2.3	2.0	2.1	2.4	2.4	3.2	3.0	3.1
9	1.8	2.2	2.2	1.6	1.4	2.6	1.6	2.5	2.8	3.3	3.6	3.6
10	2.0	1.8	1.9	1.8	1.7	2.0	2.2	2.4	2.8	3.0	3.4	3.2
11	C	C	C	1.6	1.6	1.7	2.1	2.3	2.6	3.0	3.1	3.4
12	1.6	1.7	1.6	1.7	C	2.0	U2.20	2.2	2.8	3.3	3.2	3.2
13	1.8	1.8	1.6	1.8	1.9	2.0	2.3	2.2	C	C	C	C
14	2.0	1.6	1.7	1.6	1.8	1.9	2.3	2.3	2.4	3.0	3.0	3.1
15	2.1	1.9	2.2	2.1	1.7	2.1	2.2	2.1	2.6	3.0	3.1	3.1
16	1.8	1.5	1.7	1.5	1.5	1.7	2.1	2.1	2.6	3.0	3.0	4.8
17	1.6	1.7	1.4	1.5	1.5	2.0	2.2	2.2	2.6	2.8	3.0	3.2
18	2.1	2.4	2.5	2.4	2.2	2.4	2.5	2.7	3.0	3.4	4.6	5.0
19	2.2	2.0	2.3	2.2	2.4	1.9	2.4	2.0	2.4	3.0	4.6	4.8
20	2.0	1.6	1.7	1.6	1.7	1.7	2.3	1.9	2.4	2.8	3.1	3.0
21	C	C	U1.50	1.7	C	1.8	2.4	2.4	2.4	2.8	3.0	3.1
22	1.9	1.7	1.8	1.6	1.8	1.6	1.8	1.9	2.3	2.8	2.8	3.1
23	2.1	1.6	1.6	1.5	1.6	1.8	2.2	2.2	2.6	2.8	3.0	3.0
24	2.2	2.5	1.9	2.0	1.6	1.8	C	C	C	C	C	C
25	2.0	1.9	1.8	1.6	2.4	2.0	2.3	2.0	2.8	3.0	3.2	3.7
26	1.8	1.5	1.7	1.5	1.6	1.8	2.1	2.4	2.8	3.2	3.4	3.4
27	1.7	1.4	1.3	1.6	1.9	1.8	1.7	2.2	C	3.0	3.2	3.6
28	1.7	1.8	1.6	1.5	1.5	1.7	1.7	2.2	2.5	3.0	3.2	5.0
29	2.4	1.9	2.0	1.7	1.7	1.9	2.0	2.1	2.6	3.0	3.0	3.2
30	1.8	1.5	1.5	1.5	1.7	1.7	2.3	2.0	2.4	3.5	3.0	3.4
Count	28	28	29	30	28	30	29	29	27	28	27	26
Median	2.0	1.8	1.8	1.6	1.7	1.8	2.2	2.2	2.6	3.0	3.1	3.4
Mean	1.9	1.8	1.8	1.7	1.8	1.9	2.1	2.3	2.6	3.1	3.4	3.6

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : April 1958

TABLE 39

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
3.6	3.8	3.5	2.8	4.6	2.4	1.9	1.4	1.7	1.5	1.6	1.9	1
3.9	3.4	3.5	2.8	2.8	2.4	2.0	2.0	1.8	1.8	1.9	2.0	2
3.8	C	3.4	3.0	2.6	2.1	2.0	1.7	1.5	2.0	2.2	2.4	3
C	3.2	3.2	2.8	2.7	2.3	2.1	1.6	1.9	1.8	1.9	1.8	4
3.5	3.9	3.0	2.7	2.6	2.3	1.9	1.6	1.7	1.6	2.4	2.2	5
C	5.0	3.4	3.2	2.9	2.4	2.0	1.4	2.0	1.8	2.3	2.0	6
3.8	3.8	3.1	3.1	4.4	2.2	2.0	1.7	2.1	1.8	1.4	1.7	7
3.2	3.3	3.6	2.7	2.5	2.0	2.0	1.2	1.7	1.8	1.6	1.6	8
3.8	3.4	3.2	2.6	2.6	2.1	1.8	1.2	1.7	2.0	1.8	1.6	9
3.6	3.1	3.0	2.7	2.4	2.2	C	C	C	C	C	C	10
3.2	3.2	3.2	2.7	2.7	2.0	1.6	1.2	1.6	1.8	1.6	C	11
3.1	U3.18	3.0	U2.68	2.4	2.1	1.9	1.4	2.1	1.8	2.3	1.7	12
C	C	C	C	C	2.6	2.0	1.8	1.7	1.9	2.2	1.7	13
3.2	3.1	2.8	2.6	2.6	2.1	1.9	U1.78	1.6	U2.28	1.5	U2.28	14
3.3	3.2	3.0	2.7	2.4	2.2	2.0	1.7	1.9	1.8	1.5	1.6	15
3.4	3.2	3.0	2.6	2.6	2.2	1.7	1.7	1.6	2.0	1.6	1.9	16
3.2	3.2	3.0	2.0	2.6	2.2	1.8	1.5	1.6	1.7	2.2	2.1	17
4.8	4.8	3.2	2.8	2.5	2.1	2.0	1.6	1.7	2.0	2.2	2.2	18
4.6	3.6	3.0	2.7	2.4	2.6	2.2	2.0	1.7	1.8	2.0	2.1	19
3.3	3.2	3.0	2.6	2.6	2.2	2.0	1.2	1.7	1.7	2.0	C	20
3.3	U3.30	2.8	2.5	2.3	1.9	1.7	1.5	1.7	1.4	1.5	1.8	21
3.1	3.0	2.9	2.5	2.4	2.0	1.9	1.5	1.6	1.7	1.8	2.1	22
3.0	3.0	3.0	2.6	2.4	1.9	1.9	1.5	1.8	2.1	2.1	2.3	23
C	3.2	3.2	2.2	2.5	2.2	2.1	1.6	1.9	1.4	1.8	1.6	24
3.5	3.0	3.1	2.9	2.6	2.2	1.9	1.6	2.0	1.9	1.5	C	25
3.4	3.4	3.2	3.0	4.0	2.0	2.0	1.5	1.8	2.0	1.8	1.6	26
3.6	5.0	3.3	3.0	2.4	2.4	1.9	1.5	1.8	1.9	1.4	1.7	27
3.4	3.4	3.1	3.0	2.8	2.4	2.2	1.4	2.0	1.7	1.7	2.0	28
3.6	3.3	3.2	2.9	2.6	2.6	2.0	1.5	1.5	1.6	1.7	1.5	29
3.6	3.2	3.0	3.2	2.8	3.0	2.3	1.8	1.7	1.7	2.1	2.2	30
26	28	29	29	29	30	29	29	29	29	29	26	Count
3.4	3.2	3.1	2.7	2.6	2.2	2.0	1.5	1.7	1.8	1.8	1.9	Median
3.5	3.5	3.1	2.7	2.7	2.2	2.0	1.5	1.8	1.8	1.8	1.9	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : April 1958

TABLE 39—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.2	2.0	1.7	2.0	2.0	2.1	2.4	2.6	2.4	3.8	3.6	3.6
2	1.8	2.0	2.0	1.6	1.8	2.0	2.3	2.5	2.9	4.9	5.2	3.8
3	2.0	2.1	1.9	1.9	1.7	1.9	2.1	2.7	3.4	5.1	3.7	4.0
4	1.9	2.0	2.0	1.8	1.6	1.8	2.2	2.6	3.0	3.1	C	C
5	1.8	1.6	1.8	1.8	1.7	1.8	2.6	2.4	3.2	3.1	3.4	3.5
6	1.8	2.0	1.8	1.8	1.6	2.1	2.6	2.6	2.8	3.0	C	C
7	1.8	2.2	2.1	2.1	1.9	1.7	2.2	2.5	3.0	3.1	3.4	3.4
8	1.3	1.5	1.8	2.3	2.2	1.9	2.2	2.3	3.4	3.1	3.2	3.1
9	2.1	2.5	2.0	1.6	2.0	2.2	2.6	2.6	3.0	3.2	3.8	3.7
10	1.6	1.6	1.7	1.9	1.9	1.9	2.2	2.4	3.0	3.2	3.2	3.4
11	C	C	C	1.8	1.8	1.8	1.9	2.4	2.9	2.9	3.50	3.2
12	1.7	1.8	1.8	2.0	1.9	2.0	2.3	2.4	2.9	3.0	3.0	3.3
13	1.8	1.6	1.6	1.7	2.1	2.1	2.1	2.5	C	C	C	C
14	1.5	1.5	1.6	1.8	2.1	2.2	2.3	2.4	2.7	3.1	3.0	3.2
15	1.9	2.0	2.1	1.8	1.8	2.2	2.3	2.3	2.9	3.0	3.3	3.4
16	1.5	1.7	1.6	1.5	1.6	2.1	2.1	2.4	2.8	2.8	3.2	3.6
17	1.5	1.7	1.6	1.3	1.5	1.8	2.0	2.4	2.8	2.8	3.1	3.2
18	2.4	2.4	3.0	2.3	2.2	2.7	2.8	3.0	3.2	3.4	4.6	5.0
19	2.2	2.2	2.4	1.8	2.4	2.2	2.5	1.9	3.1	3.4	4.0	4.4
20	1.8	1.6	1.8	1.7	1.7	1.7	1.8	2.2	2.6	3.0	3.2	3.2
21	C	3.80	1.6	1.7	C	1.8	2.2	2.6	2.6	2.8	3.0	3.2
22	1.7	1.6	1.7	1.9	1.8	1.8	2.1	2.1	2.5	2.6	3.0	3.0
23	1.8	1.7	1.7	1.5	1.8	2.0	2.0	2.2	2.6	2.5	3.0	3.1
24	2.2	1.7	1.8	1.8	1.7	C	C	C	C	C	C	C
25	2.0	2.2	1.4	2.0	2.2	2.0	2.1	2.4	3.0	3.0	3.2	3.8
26	1.8	1.5	1.4	1.5	1.7	2.0	2.0	2.5	3.0	3.2	3.3	3.2
27	1.6	1.6	1.7	1.6	1.7	2.0	2.0	2.2	C	3.0	3.4	3.8
28	1.4	1.3	1.5	1.4	1.6	2.1	2.0	2.4	3.0	2.9	5.2	3.8
29	2.0	1.8	1.8	2.2	1.7	2.2	1.9	2.2	2.9	3.0	3.2	3.6
30	1.5	1.5	1.5	1.5	1.8	1.8	2.3	2.2	2.8	2.8	3.6	3.4
Count	28	29	29	30	29	29	29	29	27	28	26	26
Median	1.8	1.7	1.8	1.8	1.8	2.0	2.2	2.4	2.9	3.0	3.3	3.4
Mean	1.8	1.8	1.8	1.8	1.8	2.0	2.2	2.4	2.9	3.2	3.5	3.5

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : April 1958

TABLE 39—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
3.7	3.8	3.0	3.1	3.2	2.1	1.5	1.7	1.9	1.6	1.7	1.8	1
3.6	3.4	3.2	3.0	2.9	2.3	1.2	2.2	2.0	1.8	1.7	1.9	2
3.8	C	3.0	3.0	2.4	2.4	1.6	1.4	1.9	2.1	1.7	1.6	3
3.6	3.3	3.0	2.8	2.5	2.4	1.4	1.8	1.8	2.1	1.6	1.7	4
4.0	3.9	3.0	3.0	2.4	2.5	1.6	1.6	1.8	2.1	2.2	2.0	5
C	4.8	3.2	4.0	2.4	2.6	1.7	2.0	1.8	2.2	2.0	1.9	6
4.7	3.4	3.0	6.2	2.7	2.6	1.5	2.1	2.0	1.9	1.7	1.6	7
3.1	3.0	2.9	2.9	2.1	2.0	2.2	1.4	2.0	1.4	1.5	1.9	8
3.8	4.8	3.0	2.8	2.2	2.0	1.5	1.4	C	1.8	1.8	2.2	9
3.7	3.1	2.8	2.7	2.2	C	C	C	C	C	C	C	10
3.8	3.3	3.0	U2.7s	2.5	1.8	1.4	1.7	1.7	1.6	1.8	C	11
3.3	U2.9s	U2.7s	U2.7s	2.3	2.2	1.5	1.9	1.9	2.1	2.0	1.7	12
C	C	C	C	C	U2.4s	U1.5s	1.9	1.8	1.6	1.7	1.9	13
3.3	3.0	2.8	2.6	2.4	2.4	1.5	1.5	1.8	1.6	2.0	1.9	14
3.3	3.0	2.9	2.6	2.2	2.4	1.5	1.9	1.8	1.7	1.5	1.8	15
3.3	3.0	3.0	2.8	2.2	2.2	1.5	1.7	1.7	2.0	2.0	1.6	16
3.2	3.0	3.2	3.0	2.2	2.4	1.4	1.6	2.0	1.7	2.0	2.2	17
4.8	4.6	2.8	2.8	2.3	1.8	1.7	1.6	1.6	2.2	2.2	2.1	18
3.6	3.8	2.8	2.8	2.3	2.4	1.5	1.5	2.0	1.6	C	1.8	19
3.2	3.2	2.8	3.0	2.4	2.0	1.5	C	C	C	C	C	20
3.2	3.1	2.7	2.6	2.2	1.7	1.5	1.6	1.2	1.1	2.0	1.9	21
3.0	3.0	2.7	2.6	2.2	2.4	1.7	1.7	1.8	1.3	1.7	2.3	22
3.2	2.9	2.8	2.5	2.2	2.1	1.5	1.8	1.9	2.0	1.8	2.5	23
3.3	3.0	2.7	2.5	2.5	2.4	1.6	U1.8s	1.9	1.4	2.2	1.5	24
3.5	3.1	2.9	2.8	2.4	2.5	1.5	1.9	1.6	1.9	C	1.5	25
3.4	3.2	3.0	2.8	2.4	2.4	1.4	1.7	1.8	1.8	1.8	1.3	26
C	3.4	2.8	3.0	2.6	2.6	1.7	2.0	2.0	2.0	1.5	1.5	27
3.2	3.0	3.0	3.0	2.6	2.6	1.7	1.6	1.6	1.9	2.0	1.8	28
3.8	3.2	3.0	2.9	2.4	2.5	1.6	1.5	1.5	2.0	2.2	1.6	29
3.4	3.2	3.6	3.0	2.6	2.7	2.2	1.7	1.7	1.8	2.4	2.1	30
27	28	29	29	29	29	29	28	27	28	26	27	Count
3.4	3.2	3.0	2.8	2.4	2.4	1.5	1.7	1.8	1.8	1.8	1.8	Median
3.5	3.4	2.9	3.0	2.4	2.3	1.6	1.7	1.8	1.8	1.9	1.8	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2

Unit : Km

Month : April 1958

TABLE 40

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	LH	LH	LH
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	LH	L	L	L
6								L	L	L	C	C
7								L	L	LH	L	L
8								L	L	LH	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	LH
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
Count							
Median							
Mean							

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2

Unit : Km

Month : April 1958

TABLE 40

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L L L C L	L L C L L	L L L L L	L L L L L	L L L L L	L							1
C L L L L	L L L L L	L L L L L	L L L L L	L L ^{LR} L L L L	L							2
L L Q L L	L L C L L	L L C L L	L L C L L	L L C L L	L L L L L							3
L L L L L ^{LR}	L L L L L	L L L L L	L L L L L	L L L L L	L							4
L L L C L	L L L L L	L L L L L	L L L L L	L L L L L	L							5
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L							6
..							7
..							8
..							9
..							10
..							11
..							12
..							13
..							14
..							15
..							16
..							17
..							18
..							19
..							20
..							21
..							22
..							23
..							24
..							25
..							26
..							27
..							28
..							29
..							30
..							Count
..							Median
..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2

Unit : Km

Month : April 1958

TABLE 40—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5'E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	LH	LH
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6							L	L	LH	LH	C	C
7							L	L	LH	L	L	L
8							L	L	L	L	L	L
9							L	L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	LH
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23							C	L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26							L	L	L	L	L	L
27							L	L	L	L	L	L
28								L	L	L	L	L
29								L	L	LH	LH	LH
30								L	L	LH	LH	LH
Count						
Median						
Mean						

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2

Unit : Km

Month : April 1958

TABLE 40—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L L L L _H L	L L C L L	L L L L L	L L L L L	L _H L L L L _H								1
												2
												3
												4
												5
												6
C L L L L	L L L L L	L L L L L	L L _H L L L	L L L L L								7
												8
												9
												10
L L C L L	L L C L L	L L C L L	L L C L L	L L C L L								11
												12
												13
												14
												15
L L L L L _H	L L L L L _H	L L L L L	L L L L L	L L L L L								16
												17
												18
												19
												20
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								21
												22
												23
												24
												25
L C L L L	L L L L L _H	L L L L L	L L L L L	L L L L L _H								26
												27
												28
												29
												30
..	..	..	..	..								Count
..	..	..	..	..								Median
..	..	..	..	..								Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km

Month : April 1958

TABLE 41

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	280	300	320	300	265	245	270	255	240	240	230	225
2	240	250	260	290	290	270	270	250	240	230	B	220
3	260	280	280	245	240	240	280	250	235	225	230	220
4	270	275	250F	U240F	240	225	270	250	245	225	230	C
5	280	290	270	265	240	240	285	260	245	240	225	220
6	295	280	280	275	235	220	250	250	220	230	C	C
7	310	315	305	295	245	230	270	250	240	230	220	220
8	270	270	280	260	220	220	260	240	235	230	215	210
9	280	255	240	235	255	260	270	250	235	225	220	220H
10	280	260	270	260	260	240	265	250	240	230	225	220
11	C	C	C	240	230	230	260	245	230	220	215	220
12	U250F	255	245	245	C	220	260	245	240	235	230	220
13	U290F	U285F	270	245	235	220	255	245	C	C	C	C
14	U270F	300	260	250	235	215	260	245	240	225	220	210
15	255	240	260	260	260	220	250	245	230	230	220H	215H
16	260	240	240	225	220	210	255	240	230	220	220	B
17	240	240	240	235	220	220	255	240	235	220H	220	220
18	290	290	320	270	220	240	275	250	240	230	225	220
19	260	255	255	240	250	235	265	255	240	220	220	210
20	240	230	220	250	235	225	280	250	235	230	220	210
21	260	U255G	240	225	240	240	265	245	220H	225	210H	205H
22	275	280	265	240	210	240	275	245	230	210H	210	205H
23	280	260	240	220	220	220	270	245	230	220	215	205H
24	300	300	285	240	215	230	C	C	C	C	C	C
25	300	300	300	255	240	230	275	250	235	225	220	210H
26	300	320	265	235	215	210	260	240	220	220	220	220
27	320	280	310	340	240	210	265	240	C	220	220	220
28	340	300	300	280	260	240	270	240	240	230	220	U220B
29	280	290	325	285	240	240	280	250	235	220	215	200F
30	250	260	250	265	260	275	275	245	230	225	220	220
Count	29	29	29	30	29	30	29	29	27	28	26	25
Median	280	280	265	250	240	230	270	245	235	225	220	215
Mean	275	275	270	255	240	230	265	245	235	225	220	215

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km

Month : April 1958

TABLE 41

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
215	225H	225	240	260	270	320	U480F	F	U410F	U320F	U280F	1
220	220H	225	235	255	270H	315	420	415	355	280	250	2
220	C	230	235	240	260	320	440	500	F	290	295	3
C	215	220	235	240	265	320	455	500	405	U330F	290	4
220	220	225	235	240	265H	315	U460FH	U460F	U430F	U415F	U340F	5
C	220	215	235	245	260	315	460	F	380	360	300	6
215	220	225	235	B	270H	325H	F	F	F	U290F	U285F	7
205	215	230	230	240	260H	315	U480F	F	U430F	U270F	275F	8
220H	205H	220H	240H	240	260	300	445	F	F	305	280	9
205H	210	215H	220	240	260	C	C	C	C	C	C	10
210	210	215	225H	245	270	300H	F	F	U400F	U270F	C	11
215	210H	210	220	240	265	315	U465F	F	F	U400F	U290F	12
C	C	C	C	C	260	305	F	F	F	F	F	13
205	210	215	225H	240	255	310	U480F	U450F	U365F	300	U270F	14
215	215H	215H	220	245	260	315	U445F	F	F	U355F	305	15
215	210	220	230	240	260	300	400	360	300	260	240	16
205	215	220	230	240	260	300	400	340	300	320	305	17
220	220	230	A	U260A	275	300	405	365F	300	260	260	18
220	220	220	230	240	260	300	425	U415F	360	280	245	19
210	210	220	225	240	260H	300	420	400F	360	320	C	20
210	220	220	230	235	260	305	420	440	420	345	285	21
200H	210	205H	225	240	260	305	440	U425F	U305F	F	320	22
210	205	215	210	240	260	310	430	F	U400F	310	300	23
C	215	220	U240A	A	265	315H	FH	F	F	340	320	24
210H	215	220	225	240	265	310	470	F	F	F	C	25
220	215	210H	220	U240B	260	320	U460F	U300F	F	U380F	300	26
200H	U220B	220	220	240	260	310	U480F	U480F	410	360	340	27
220	210	220	225	240	260	320	445	U300F	360	300	290	28
210	225	230	230	245	270	315	440F	440F	395	320	275	29
220	220	220	230	245	260	310	420	420	375	310	285	30
26	28	29	28	27	30	29	25	17	20	26	25	Count
215	215	220	230	240	260	310	445	440	380	315	290	Median
215	215	220	230	245	265	310	440	435	375	320	290	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F.
Unit : Km
Month : April 1958

TABLE 41—contd.
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	290	300	310	285	255	250	260	245	240	230	225	220
2	240	255	280	280	295	250	260	240	235	B	B	220
3	275	280	260	235	240	250	260	240	235	B	220	220
4	280	U265F	260	240	230	230	265	245	240	230	C	C
5	285	280	260	260	235	260	265	250	240	230	225	225
6	280	280	280	255	225	220	250	240	230	225	C	C
7	325	300	U300F	265	230	250	260	245	235	225	215H	215
8	265	275	270	240	220	230	250	240	235	225	220	210
9	275	240	240	240	260	255	260	240	230	225	220	210H
10	265	295	260	260	255	235	260	240	220	230	220	210H
11	C	C	C	230	225	240	260	240	225	220	225	215
12	250	260	250	240	230	225	255	240	235	230	220	215
13	U280F	U280F	260	230	220	225	260	240	C	C	C	C
14	U280F	260	250	240	220	220	250	240	230	220	210	215
15	245	250	255	270	240	225	255	230	225	230	220H	225
16	240	255	240	225	215	225	240	230	225	220	220	200
17	240	240	240	230	220	230	245	240	235	220	220	215
18	290	310	300	240	220	265	260	240	235	225	215	B
19	255	260	250	245	255	240	265	240	230	220	215	220
20	235	220	240	255	230	235	260	240	220	220	215	210
21	C	250	225	235	240	245	260	235	205H	215H	205H	210
22	280	265	250	230	220	275	250	240	225	210H	210	195H
23	270	260	230	220	210	250	255	235	225	220	205H	210
24	300	290	260	225	225	C	C	C	C	C	C	C
25	300	310	280	250	230	245	260	240	225	220	220	215
26	300	310	240	220	210	235	245	240	220	220	220	220
27	300	300	310	310	220	235	250	240	C	220	220	210
28	320H	280	290	280	250	240	260	240	235H	220	B	220
29	285	310	320	265	235	280	260	240	230	220	215	210
30	250	260	260	245	260	280	260	240	220	220	220	220
Count	28	29	29	30	30	29	29	29	27	26	24	25
Median	280	275	260	240	230	240	260	240	230	220	220	215
Mean	275	275	265	250	235	245	255	240	230	225	220	215

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km

Month : April 1958

TABLE 41—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
210	225	240	240	260	290	400	F	F	U330F	U320F	260	1
220	220H	230	245	260	290	375H	440	395	310	275	250	2
215	C	230	235	250	280	380	500	500	400	280	270	3
215	215	220	240	255	280	395	500	465	390	U290F	280	4
225	230	235	240	250	285H	395	U460F	U440F	U440F	U355F	305	5
C	215	240	240	255	285	385	500F	405	360	320	305	6
220H	220	230	B	260	290H	400H	F	F	U360F	U280F	280	7
210	215	225	240	250H	290H	390H	U560F	F	F	U280F	275	8
215H	U230BH	225H	240	250	280	375	460	F	U330F	320	300	9
220	215H	220	225	245	C	C	C	C	C	C	C	10
215	215	220H	235	260	290	365H	F	F	U305F	U290F	C	11
205H	215	220	240	250	280	380	F	F	U380F	U300F	280	12
C	C	C	C	C	280	370	F	F	U325F	F	F	13
210	215	220H	240	245	270	370	U490F	U405F	310	290	270	14
220	220H	220H	240	255	280	380	U515F	F	U360F	U345F	280	15
210	210	220	240	240	260	340	400	320	280	240	240	16
210	215	220	235	245	280	340	U400F	340	305	320	300	17
225	220	235	260	260	280	335	395F	330	280	260	255	18
205H	220	220	240	250	275	360	430	400	330	C	240	19
210	210	225	230	250	280	360	C	C	340	300	260	20
205H	215	220	225	250	280	365	430	445	375	320	280	21
210	200H	220	220H	245	280H	380	F	U350F	F	340	285	22
200H	205	205H	215H	250	280	365	U480F	U440F	340	300	300	23
210	220	220	A	270	290	370H	FH	F	U325F	350	310	24
210	220	220	240	250	280	380	F	U440F	F	C	300	25
220	210	200H	230	240	280	380	F	U480F	U410F	F	300	26
C	215	225	235	240	280	390H	F	F	420	340	350	27
210	210	225	235	240	280	390	U500F	U440F	320	300	280	28
205	220	225	240	260	290	380	460F	400	350	300	260	29
220	210H	230	230	250	290	375	440	390	320	300	280	30
27	28	29	27	29	29	29	18	18	26	25	27	Count
210	215	220	240	250	280	380	460	405	335	300	280	Median
215	215	225	235	250	280	375	465	410	345	305	280	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : April 1958

TABLE 42
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								125	120	B	B	A
2								115	A	A	B	B
3								115	A	A	A	A
4								A	105	A	A	C
5								A	A	A	100	A
6								115	A	A	C	C
7								115H	A	A	A	A
8								120	105	A	A	A
9								120	A	A	A	A
10								105	A	A	B	A
11								110	A	A	A	A
12								110	A	C	C	C
13								115	A	A	A	A
14								115	A	A	A	A
15								120	A	A	A	A
16								115	110	A	A	B
17								120	110	A	A	110
18								120	115	110	B	B
19								120	A	A	B	B
20								110	110	110	A	A
21							130	120	A	A	A	A
22								105	A	A	A	A
23								110	A	A	A	C
24							C	C	C	C	C	C
25								110	110	A	A	A
26							140	110	110	110	A	A
27							120	115	C	110	A	A
28							A	A	A	A	A	B
29							130	110	110	110	A	110
30								110	110	A	A	A
Count							4	26	11	5	1	2
Median							..	115	110	110	..	..
Mean							..	115	110	110	..	..

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : April 1958

TABLE 42

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	115	A	B	A							1
A	A	A	105	A								2
A	C	A	105	A	110							3
C	A	A	110	A								4
105	B	105	105	110	A							5
C	B	A	A	110	115							6
A	B	A	110	B	A							7
A	A	B	A	110								8
A	A	A	A	A	110							9
A	A	A	A	A	120							10
A	A	A	A	A								11
A	A	A	A	115	A							12
A	C	A	C	A	A							13
A	A	A	A	A	A							14
A	A	A	A	110	115							15
A	110	110	110	110	A							16
110	A	A	A	110	A							17
B	B	A	110	A	A							18
B	A	A	110	110								19
110	A	A	A	110	110							20
A	A	A	A	105	110							21
A	A	A	A	110	115							22
A	A	A	A	105	110							23
C	A	105	A	A	A							24
A	A	A	A	110	110							25
A	A	A	A	B	A							26
A	B	A	A	110	115							27
A	A	A	A	110	115							28
A	110	115	110	110								29
A	110	A	110	110								30
3	3	5	10	17	12							Count
..	..	110	110	110	110							Median
..	..	110	110	110	115							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E
Unit : Km
Month : April 1958

TABLE 42—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								120	110	B	A	A
2							130	A	A	B	B	A
3							120	A	A	B	A	B
4							125	A	A	A	C	C
5								A	A	105	A	A
6								105	A	A	C	C
7							120	110	110	110	A	A
8							120H	110	A	A	105	A
9								A	A	A	A	A
10							120	105	A	A	A	A
11							115	110	A	A	C	A
12							120H	110	A	A	A	A
13							120	115	C	C	C	C
14							120	A	A	A	A	A
15							135	115	A	A	A	A
16							120	110	A	A	A	A
17							120	115	A	A	A	110
18								115	110	110	B	B
19								A	A	A	B	B
20							115	110	110	A	A	A
21							120	110	105	A	A	A
22							120	105	A	A	A	A
23							120	110	A	A	A	A
24							C	C	C	C	C	C
25							120	110	115	A	A	B
26							120	110	110	A	A	A
27							120	105	C	A	A	A
28							A	A	A	A	B	B
29							120	110	110	110	A	110
30							120	110	110	110	A	A
Count							22	21	9	5	1	2
Median							120	110	110	110	..	..
Mean							120	110	110	110	..	..

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : April 1958

TABLE 42—*contd.*

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	110	A	105								1
A	A	A	105	120								2
A	C	A	105	110								3
A	A	A	A	A								4
B	B	105	A	A								5
C	B	A	B	105								6
B	A	A	B	110								7
A	A	A	110	110								8
A	B	A	105	110	120							9
A	A	A	105	105	C							10
B	A	A	110	115								11
A	A	A	A	A								12
C	C	C	C	C								13
A	A	A	A	UI 115A								14
A	A	A	110	115								15
A	110	110	110	110								16
A	A	A	110	105								17
B	B	110	110	A								18
A	A	110	110	110								19
A	A	A	110	110								20
A	A	A	105	105	115							21
A	105	A	105	110	F							22
A	A	A	105	110								23
A	A	A	A	A								24
A	A	A	A	110								25
A	A	A	A	A								26
C	A	A	A	110								27
A	A	A	110	115								28
A	110	110	110	110								29
110	110	A	110	110								30
1	4	6	18	22	2							Count
..	..	110	110	110	..							Median
..	..	110	110	110	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es
Unit : Km
Month : April 1958

TABLE 43
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								135	G	100	100	100
2								100	100	100	100	100
3		105						G	100	100	100	100
4								100	100	100	100	C
5								100	100	100	100	100
6								105	100	100	C	C
7								G	100	100	100	100
8		115						G	100	100	100	100
9	110			105	105		100	100	100	100	100	100
10					110			100	100	100	100	100
11	C	C	C					G	100	100	100	100
12					C			100	100	100	100	100
13								100	C	C	C	C
14								100	100	100	100	100
15								100	100	100	100	100
16								G	100	100	100	100
17								G	G	100	100	100
18								100	100	100	100	100
19								G	100	100	100	100
20								100	100	100	100	100
21				C	C			100	100	100	100	100
22							G	100	100	100	100	100
23								100	100	100	100	100
24							C	C	C	C	C	C
25								100	100	100	100	100
26							145	100	100	100	100	100
27							G	100	C	100	100	100
28							110	110	100	100	100	100
29							130	110	100	100	100	100
30				110				110	100	100	100	100
Count	1	2	..	2	2	..	4	22	25	28	27	26
Median	..	..	..	..	..	..	..	100	100	100	100	100
Mean	..	..	..	..	..	..	..	105	100	100	100	100

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : April 1958

TABLE 43

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	105	100							1
100	100	100	100	100	100							2
100	C	100	100	100	105							3
C	100	100	100	100	105							4
100	100	100	100	100	105							5
C	100	100	100	100	105				120			6
100	100	100	100	100	105				120	115		7
100	100	100	100	100	100							8
100	100	100	100	100	100							9
100	100	100	100	100	100	C	C	C	C	C	110 C	10
											C	11
100	100	100	100	100	100							12
100	100	100	100	100	100							13
C	C	C	C	C	100							14
100	100	100	100	100	100					120		15
100	100	100	100	100	100							16
100	100	100	100	100	100							17
100	100	100	100	100	105				105			18
100	100	100	100	100	100				115	125		19
100	100	100	100	100	100							20
100	100	100	100	100	105	105				140		21
100	100	100	100	100	100				120	110	100	22
100	100	100	100	100	100							23
C	100	100	100	100	100				115	115	120 C	24
100	100	100	100	100	105							25
100	100	100	100	100	100							26
100	100	100	100	100	100					120		27
100	100	100	100	100	100					120		28
100	100	100	100	100	110							29
100	100	100	100	100	105				120			30
26	28	29	29	29	29	1	..	..	6	18	3	Count
100	100	100	100	100	100	..	..	..	120	120	..	Median
100	100	100	100	100	100	..	..	..	120	120	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : April 1958

TABLE 43—*contd.*

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							130	G	100	100	100	100
2							G	100	100	100	100	100
3	105						G	100	100	100	100	100
4							G	100	100	100	C	C
5								100	100	100	100	100
6								G	100	100	C	C
7	110						G	100	100	100	100	100
8	110	110	110				G	100	100	100	100	100
9				105	105			100	100	100	100	100
10							G	100	100	100	100	100
11	C	C	C				G	100	100	100	100	100
12							G	100	100	100	100	100
13							G	100	C	C	C	C
14							G	100	100	100	100	100
15							G	100	100	100	100	100
16							G	G	100	100	100	100
17							G	G	100	100	100	100
18							100	100	100	100	100	100
19								100	100	100	100	100
20							105	100	100	100	100	100
21				100			140	100	100	100	100	100
22							140	100	100	100	100	100
23						115	G	100	100	100	100	100
24							C	C	C	C	C	C
25				100			105	100	100	100	100	100
26						G	100	100	100	100	100	100
27							110	100	C	100	100	100
28							110	100	100	100	100	100
29							120	100	G	100	100	100
30			110	110			G	G	100	100	100	100
Count	3	1	2	4	1	1	10	24	26	28	26	26
Median	..	..	..	..	..	..	110	100	100	100	100	100
Mean	..	..	..	..	..	..	115	100	100	100	100	100

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : April 1958

TABLE 43—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	100	110							1
100	100	100	100	100								2
100	C	100	100	100								3
100	100	100	100	105	105							4
100	100	100	100	100								5
C	100	100	100	100					120			6
100	100	100	B	100	105							7
100	100	100	100	100	105				115	110	115	8
100	100	100	100	100	105					110		9
100	100	100	100	100	C	C	C	C	C	C	C	10
											C	11
100	100	100	100	100								12
100	C	C	C	C					120			13
100	100	100	100	100					120			14
100	100	100	100	100								15
100	100	100	G	100	140							16
100	100	100	100	100	100							17
100	G	100	100	100	110			110				18
100	100	100	100	100	100				120			19
100	100	100	100	100	120							20
100	100	100	100	100	105				120			21
100	100	100	100	100	105				115	100		22
100	100	100	100	100	105					120		23
100	100	100	100	100	S				110	115	115	24
100	100	100	100	100	110							25
100	100	100	100	100								26
100	100	100	100	100	105							27
100	100	100	100	100	100							28
100	100	100	100	100	115							29
100	100	100	100	100				120	100			30
28	27	29	27	29	17	..	..	2	9	5	2	Count
100	100	100	100	100	105	..	..	..	120	110	..	Median
100	100	100	100	100	110	..	..	..	115	110	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

Unit : —

Month : April 1958

TABLE 44

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	U2.40F	U2.25F	U2.20F	U2.40F	U2.55F	2.70F	U2.75S	2.75	2.55	2.25	2.05	2.10
2	U2.65F	F	F	2.65	F	F	2.80	2.60	2.25	2.15	2.20	2.10
3	U2.55F	2.45	2.60	2.85	2.90	2.95	2.85	2.65	2.40	U2.15R	2.10	2.10
4	U2.40F	F	U2.80F	F	2.90F	2.95	2.80	2.60	2.20	2.20	2.20	C
5	2.50	2.45	2.55	2.65	2.80	2.95	2.70	2.60	2.30	U2.10R	2.10	2.10
6	F	F	F	F	2.85	3.05	3.00	2.90	2.65	2.30	C	C
7	F	F	F	F	U2.80F	2.95F	U2.80S	U2.90F	2.60	2.20	U2.00R	2.10
8	F	U2.75F	2.65F	F	3.05	3.20	2.90	3.00	2.70	2.40	2.05	2.00
9	F	U2.75F	2.90	2.90F	2.80F	U2.80F	U2.90F	U2.80F	U2.65F	U2.30R	U2.05R	2.15
10	F	F	F	F	F	2.90	U3.00F	F	F	U2.20R	2.10	2.10
11	C	C	C	3.05	3.25	3.05	U2.85C	2.80	2.60	2.35	2.15	2.15
12	F	F	F	U2.90S	C	3.15	U2.95S	2.85	2.60	2.30	2.15	2.10
13	F	F	F	2.70	3.05	F	FS	U2.80F	C	C	C	C
14	F	F	F	U3.00F	FS	FS	FS	FS	J2.60S	2.25	2.20	2.25
15	U2.70S	2.80	2.90	U2.90S	U2.85S	3.05	2.95	U2.90S	2.45	2.25	2.25	2.20
16	F	U2.60F	2.90	U3.00S	3.10	J3.05S	U3.05S	2.95	J2.75R	2.45	2.05	2.30
17	3.00	U3.00S	3.00	U3.10S	3.10	3.20	3.10	U3.00S	2.90	U2.60R	2.30	2.05
18	2.55	2.55	R	U2.60R	2.85	3.00	2.85	U2.60R	U2.35R	U2.35R	U2.45R	2.10
19	2.90	2.70	2.80	2.90	2.90	U2.95S	2.95	2.80	2.55	2.50	R	2.20
20	2.80	2.90	U3.05S	2.95	3.00	3.05	2.90	2.80	2.45	2.20	2.35	2.20
21	2.90	2.75	2.85	3.05	2.95	2.80	2.85	2.70	2.35	2.20	2.15	2.10
22	2.50	2.50	U2.75F	U2.80F	3.10	2.80	U2.85S	2.80	2.50	2.15	2.05	2.10
23	U2.60F	2.65	U3.00S	3.10	3.10	3.15	2.90	2.70	2.35	2.10	2.10	2.10
24	F	F	F	U2.85S	2.95	3.00	C	C	C	C	C	C
25	F	2.40	2.40	J2.70F	2.85	2.90	2.80	2.45	2.30	2.20	2.10	2.00
26	F	F	U2.80F	U2.80S	3.25	J3.05S	3.00	2.70	2.40	2.20	2.20	2.10
27	F	U2.50F	F	F	U2.80F	U3.10F	2.90	2.65	C	2.20	2.10	2.05
28	F	U2.50F	F	2.75	F	U3.10F	U2.80F	U2.75F	2.40	2.15	2.10	2.10
29	2.60	2.50	2.35	2.55	2.90	U2.90S	2.70	2.55	2.35	2.30	2.15	2.00
30	2.70	2.50	2.70	U2.70S	2.70	2.80	2.95	2.80	2.50	2.15	2.20	2.05
Count	15	19	18	24	25	27	27	27	26	28	26	26
Median	2.60	2.55	2.80	U2.85	2.90	3.00	2.90	2.80	2.50	2.20	2.10	2.10
Mean	2.65	2.60	2.75	U2.85	2.95	3.00	2.90	2.75	2.50	2.25	2.15	2.10

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic : (M3000)F2

Unit : —

Month : April 1958

TABLE 44
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
2.00	2.00	2.05	2.05	2.05	2.00	U1.95W	U1.85F	U2.00F	F	F	F	1
2.00	2.05	2.05	2.05	2.05	2.00	2.00	1.90	U1.95F	U2.05S	2.20	2.45	2
2.00	C	2.05	2.00	2.05	2.05	2.00	U1.90W	F	F	F	F	3
C	2.00	2.00	2.00	2.00	2.00	1.95	U1.90W	2.00	U2.00F	F	U2.50F	4
2.05	2.00	2.05	2.10	2.05	2.05	2.00	1.90H	F	F	F	F	5
C	2.00	2.05	2.10	2.10	2.10	2.00	1.95	U1.90F	U2.05F	U2.15F	U2.40F	6
2.05	1.95	2.00	2.05	2.05	2.05	U2.00R	U1.85W	F	F	F	F	7
2.05	2.05	2.05	2.10	2.10	2.15	2.05	1.95	F	F	U2.40F	2.65	8
2.00	1.95	1.95	U2.00R	U2.05R	U2.05S	C	U2.00R	1.95F	F	2.40	2.55	9
2.05	2.05	2.00	C	2.10	U2.05S	C	C	C	C	C	C	10
2.05	2.05	2.10	2.15	2.15	2.20	2.05	U1.90F	F	F	F	C	11
2.15	2.10	2.05	2.10	U2.15S	U2.10S	2.00	U1.80W	F	F	F	U2.55F	12
C	C	C	C	C	2.20	2.10	F	F	F	F	F	13
2.15	2.10	U2.15S	J2.20S	2.20	2.20	2.20	2.00	U2.00F	F	U2.40F	2.45	14
2.15	2.10	2.10	2.15	2.20	2.15	2.05	U1.90S	F	F	F	F	15
2.20	2.20	2.30	2.25	2.25	2.25	2.20	2.15	U2.30R	U2.55R	2.80	2.90	16
2.20	2.10	2.15	2.15	2.20	U2.15R	U2.10R	U2.00S	U2.05S	2.25	2.40	U2.50R	17
U2.10R	U2.10R	U2.10R	2.10	2.20	2.15	2.10	2.05	U2.05F	2.35	R	2.80	18
2.00	2.05	2.05	2.15	2.25	2.25	2.20	U2.05S	2.10	U2.20S	2.40	2.60	19
2.15	2.10	2.05	2.15	2.10	2.05H	2.00	1.95	2.00	U2.15S	2.40	C	20
2.05	2.00	2.00	2.00	2.00	2.00	2.00	1.95	2.00	F	U2.15F	U2.40F	21
2.05	2.05	2.00	2.05	2.10	2.10	2.05	2.00	J1.90F	U2.00F	2.10	2.30	22
2.05	2.05	2.05	2.10	2.10	2.05	2.00	1.95	U1.95F	F	U2.40S	2.50	23
C	2.10	2.10	2.10	2.15	2.15	2.05	1.95	U2.00F	F	2.15	F	24
2.00	2.00	2.00	2.00	2.00	2.05	2.00	1.95	1.95	F	F	C	25
2.10	2.05	2.00	2.05	2.05	U2.00S	U1.95S	U1.95F	F	F	F	F	26
2.05	2.05	2.05	2.05	2.00	2.00	U2.00S	U1.95W	F	F	F	F	27
2.00	1.95	1.95	2.00	2.05	2.10	U2.00S	W	F	U2.00F	2.20	2.35	28
2.10	2.10	2.05	2.00	2.00	1.95	1.95	1.95	1.90	2.00	U2.30R	U2.40S	29
2.10	2.05	2.05	2.10	2.05	2.10	2.00	1.95	2.00	2.10	U2.35S	2.55	30
26	28	29	28	29	30	28	28	18	12	16	17	Count
2.05	2.05	2.05	2.10	2.10	2.10	2.00	1.95	U2.00	U2.10	2.40	2.50	Median
2.10	2.05	2.05	2.10	2.10	2.10	2.05	1.95	U2.00	U2.15	2.35	2.50	Mean

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : (M3000)F2

Unit : —

Month : April 1958

TABLE 44—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	U2.30F	U2.30F	U2.35F	U2.55F	U2.70F	2.80	2.80	2.60	2.40	2.15	2.10	2.10
2	2.65	F	U2.70F	2.70	F	F	2.75	2.45	2.10	2.15	2.15	2.05
3	2.50	2.50	2.70	2.90	2.90	2.90	2.80	2.55	2.25	2.10	2.10	2.10
4	2.65	2.80F	2.85	F	2.95	2.85	2.75	2.35	2.25	2.20	C	C
5	U2.50F	2.50F	2.60	2.70	2.90	2.85	2.70	2.45	2.10	2.10	2.10	2.10
6	F	F	U2.45F	2.75	2.95	3.05	2.95	2.80	2.50	2.05	C	C
7	F	F	F	F	U2.90F	2.85F	2.90	2.75F	2.45	2.05	2.05	2.10
8	F	U2.65F	2.70F	F	3.20	2.85	3.00	2.90	2.60	2.25	2.05	2.05
9	F	2.90	U2.90F	F	F	2.90F	U2.95F	U2.75F	2.50	2.10	2.20	2.10
10	F	F	F	F	F	2.95	F	F	U2.35F	2.10	2.15	2.05
11	C	C	C	3.10	3.25	U2.90S	2.85	2.75	2.50	2.25	2.10	C
12	F	2.85	F	U3.00S	3.10	U3.20S	U2.90S	2.75	2.45	2.15	2.20	2.20
13	F	F	U2.85F	2.90	F	F	F	U2.75F	C	C	C	C
14	F	U2.80F	U2.90F	F	U3.10F	FS	FS	U2.65F	2.45	2.10	2.30	2.20
15	U2.85F	2.85	2.90	2.85	2.95	3.10	2.95	2.70	2.40	2.20	2.25	2.15
16	U2.70F	U2.70S	2.95	U3.05S	3.15	3.05	3.00	2.85	J2.60R	2.20	2.20	2.2
17	3.00	U3.00S	U3.00S	3.10	3.10	U2.95S	3.05	U3.00R	2.70	2.40	2.20	2.1
18	2.60	U2.55R	U2.55R	2.80	2.90	2.90	2.80	2.50	U2.45R	U2.50R	U2.25R	U2.30R
19	U2.85S	2.75	2.80	2.85	2.95	U3.00S	2.95	2.70	2.50	2.40	2.20	2.20
20	2.90	3.10	3.00	2.90	U3.05S	U2.95S	2.90	2.65	2.30	2.30	2.35	2.10
21	C	2.80	2.95	2.95	2.85	2.85	2.90	2.50	2.20	2.20	2.15	2.10
22	J2.55S	F	U2.90F	3.10	U3.00S	2.70	2.90	2.65	2.30	2.00	2.10	2.05
23	2.55	2.85	3.00	3.15	3.15	2.85	2.85	2.55	2.20	2.20	2.10	2.10
24	U2.45F	F	U2.80F	3.00	2.95	C	C	C	C	C	C	C
25	2.35	2.30	2.55	2.70	3.00	2.85	2.70	2.30	2.20	2.20	2.05	2.05
26	F	F	U2.85F	3.00	3.20	U3.00S	2.90	2.60	J2.30R	2.20	2.10	2.10
27	U2.40F	U2.55F	F	F	U3.00F	U2.90S	2.75	2.60	C	2.10	2.05	2.05
28	F	U2.60F	F	2.80	U3.00F	U2.95F	U2.80F	U2.60F	2.20	2.10	2.10	2.05
29	2.55	2.40	U2.40S	2.70	3.00	2.80	2.65	2.55	2.25	2.30	2.05	2.00
30	U2.45S	2.50	U2.75S	U2.80S	2.70	2.90	U2.80S	2.65	2.35	2.10	2.10	2.05
Count	18	21	24	23	26	26	26	28	27	28	26	25
Median	2.55	2.70	2.80	2.90	3.00	2.90	2.90	2.65	2.35	2.20	2.10	2.10
Mean	2.60	2.70	2.75	2.95	3.00	2.90	2.85	2.65	2.35	2.20	2.15	2.10

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

Unit : —

Month : April 1958

TABLE 44—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2.00	2.00	2.05	2.05	2.00	U1.95S	U1.90W	U1.90F	F	U2.05F	F	F	1
2.00	2.05	2.05	2.05	2.00	2.00	U1.90W	1.90	U2.00S	U2.15S	2.30	U2.50S	2
2.00	C	2.05	2.00	2.05	2.00	U1.90W	F	F	F	F	F	3
2.00	2.00	2.00	2.00	2.00	2.00	U1.90W	U1.85W	F	U2.15F	F	2.45	4
2.00	2.00	2.05	2.10	2.05	2.00	1.95	U1.90RH	F	F	F	F	5
C	2.00	2.05	2.10	2.10	2.05	1.95	U1.95R	U2.00F	U2.10F	U2.25F	F	6
2.00	1.95	2.00	2.05	2.10	2.05	1.95	F	F	F	F	F	7
2.00	2.00	2.05	2.10	2.15	2.10	2.00	F	F	F	U2.55F	2.70	8
U2.00R	2.00	2.00	2.00	U2.05S	U2.10S	2.00	U2.05R	2.00F	U2.30S	2.40	F	9
2.05	2.00	C	2.05	U2.05S	C	C	C	C	C	C	C	10
2.05	2.05	2.10	2.20	2.20	2.15	U2.00S	F	F	F	F	C	11
2.10	2.05	2.10	2.15	2.15	U2.05S	U1.95S	F	F	U2.35F	F	U2.75F	12
C	C	C	C	C	2.15	2.00	F	F	F	F	F	13
2.10	2.15	2.15	2.15	2.25	2.15	2.15	F	U2.10F	FS	F	U2.60F	14
2.10	2.05	2.15	2.25	2.15	2.10	U1.95S	U1.85S	F	F	F	F	15
2.20	2.25	2.25	2.20	U2.25R	2.25	2.10	2.20	2.35	U2.70R	U3.00S	2.95	16
2.15	2.10	2.15	2.20	2.20	U2.15R	U2.05R	U2.00R	U2.20S	2.30	R	U2.50R	17
U2.15R	U2.15R	2.05	2.15	2.20	2.15	2.10	2.05	U2.20R	2.50	2.75	2.80	18
2.05	2.10	2.05	2.20	2.25	2.30	2.10	2.05	2.10	U2.30S	U2.50R	U2.75R	19
2.10	2.05	2.10	2.10	2.10	2.05	2.00	2.00	2.10	U2.35S	2.50	2.85	20
2.05	2.00	2.00	2.00	2.00	2.00	1.95	U1.95S	F	U2.10F	U2.20F	U2.45F	21
2.05	2.05	2.05	2.05	2.10	2.10	2.00	1.95	F	U2.05F	U2.10F	F	22
2.05	2.05	2.10	2.10	2.05	2.00	1.90	1.90	F	U2.05F	F	U2.65F	23
2.15	2.10	2.10	2.15	2.15	2.10	1.95	1.95	F	2.15	U2.25F	F	24
2.00	1.95	2.00	2.00	2.00	2.05	1.90	1.90	U1.95F	F	C	F	25
2.05	2.05	U2.00S	2.05	U2.05S	2.00	U1.90W	F	F	F	F	F	26
C	2.05	2.00	2.05	2.00	2.00	U2.00S	F	U2.00F	F	U2.10F	F	27
2.00	1.95	2.00	2.05	2.05	U2.05S	U1.95S	U1.90F	F	U2.20S	2.30	U2.50S	28
2.10	2.10	2.05	2.00	2.00	U2.00S	1.95	1.90	U1.95S	U2.05S	2.30	2.65	29
2.10	2.05	2.05	U2.10R	U2.05R	2.05	U2.00S	1.90	2.05	U2.05S	U2.50S	2.50	30
27	28	28	29	29	29	29	20	13	18	15	15	Count
2.05	2.05	2.05	2.10	2.05	2.05	1.95	1.90	2.05	2.20	2.30	2.65	Median
2.05	2.05	2.05	2.10	2.10	2.05	2.00	1.95	2.10	2.25	2.40	2.65	Mean

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : May 1958

TABLE 45

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	11.4	10.8	9.8	9.9	9.7	8.5	10.6	12.6	14.2	14.7	13.8	12.7
2	F	U9.4S	10.4	11.1	10.6	U9.2S	U10.1S	12.2	13.6	13.7	12.0	11.6
3	U9.8S	U9.2F	U8.6F	F	10.4	9.5	12.5	12.5	13.6	U12.9R	11.5	11.3
4	F	F	U9.4F	9.1F	8.6	6.8	8.7	11.3	13.0	13.0	11.8	12.2
5	F	F	F	U8.7F	6.6	4.6E	8.7	11.4	12.8	13.2	12.5	12.4
6	F	F	F	F	U9.6F	F	U9.5F	11.9F	13.2	13.8	C	C
7	F	U10.2F	F	F	F	U9.0F	10.7	12.8	13.5	13.4	11.8	10.8
8	U10.3F	10.6	10.0F	U9.2S	F	8.2F	10.7F	12.2F	13.3	13.9	12.9	11.8
9	U9.7F	10.8	11.2	9.3	7.1	6.6	9.7	12.0	12.8	13.8	13.0	13.6
10	U10.2F	10.3	10.6	11.0	F	U7.3F	9.3F	11.9	13.2	13.6	13.7	13.1
11	U11.6S	10.5	10.8	10.4	U9.3S	U7.3S	U9.8S	12.0	13.3	J14.0S	13.8	13.8
12	FS	FS	U11.0F	F	U11.2F	8.0	9.4	11.3	11.3	11.2	11.8	C
13	FS	U8.7F	FS	FS	9.6	6.9	9.3	U11.8S	12.8	U13.0R	12.8	12.6
14	FS	11.0	F	F	U11.5S	U10.6S	11.1	12.6	14.7	14.8	U13.0R	12.8
15	U9.5S	U9.4S	U9.3F	U9.6S	9.4	U10.2S	11.1	12.6	13.6	13.8	12.7H	11.1
16	10.7	U9.3S	U9.5S	9.3	8.5	6.0	U9.0S	11.2	12.1	J13.2R	12.8	11.9
17	U10.6F	F	F	F	F	J8.0S	10.4	12.0	12.8	11.2	11.8	11.2
18	F	U9.0F	U10.2F	F	U8.5F	7.6	9.7	12.1	13.2	J13.4R	J12.2R	11.8
19	F	F	F	F	F	U7.1F	9.8	11.8	12.6	12.8	11.8	11.2
20	U11.8S	10.8	10.8	10.2	8.7	7.6	U9.2S	11.3	12.4	C	11.6	11.7
21	10.7	U10.2S	10.6	10.8	9.0	5.3	8.0	10.8	12.2	12.3	12.4	11.8
22	F	F	F	F	U9.0F	8.1	10.0	11.6	12.7	12.6	11.3	10.8
23	10.3F	10.6	F	U9.6F	J8.0R	8.0	10.0	11.4	12.1	11.9	11.8	11.2
24	F	F	F	U10.1F	U8.8F	8.3	10.1	11.8	12.6	12.4H	11.8	10.8
25	F	F	F	F	7.5	6.4	9.0	11.2	12.0	C	C	C
26	F	8.8	8.4	8.1	7.4	6.8	9.0	11.1	12.2	12.8	12.7	11.6
27	9.0	F	8.3	9.3	9.5	9.4	10.6	U11.0RH	11.7	12.0	11.6	11.1
28	10.6	U9.9S	U9.6S	U9.4S	8.7	7.0	9.6	12.2	13.0	13.0	11.8	10.8
29	F	8.5	9.3	9.4	9.1	8.8	10.5	11.9	12.8	12.8	C	C
30	10.0	U9.3S	9.6	U7.4S	6.8	6.0	8.8	11.3	12.4	13.3	13.3	11.3
31	F	F	F	F	8.6	8.9	9.8	11.2	12.2	13.0	12.6	12.2
Count	15	20	19	19	26	30	31	31	31	29	28	27
Median	U10.3	U10.0	9.8	9.4	8.9	7.8	9.8	11.8	12.8	13.0	12.2	11.8
Mean	U10.4	U9.9	9.8	9.6	8.9	7.7	9.8	11.8	12.8	13.1	12.4	11.9

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : May 1958

TABLE 45

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
12.3	12.0	12.2	12.6	12.7	12.8	12.6	11.2	U9.6s	10.0F	U10.6s	F	1
11.3	11.4	11.7	12.2	12.8	C	12.4	U11.0R	F	10.5	U10.7F	10.3	2
U11.1R	11.2	11.8	12.6	13.0	13.0	12.7	11.1	F	F	F	F	3
C	12.0	12.1	12.7	13.2	13.4	12.9	11.2	C	F	F	F	4
10.6	10.5	10.8	11.3	11.4	11.6	11.5	C	F	F	F	F	5
10.5	10.4	10.5	10.8	11.2	11.5	11.2	9.8F	F	F	F	F	6
10.0	10.0	10.2	10.6	10.8	11.5	U11.7s	11.0	10.3	U10.5F	11.0	F	7
10.9	10.8	10.8	11.0	11.1	11.5	11.0	U9.7s	U8.5F	F	U9.6F	F	8
12.9	12.8	12.6	12.5	12.5	U12.0s	U11.5s	C	F	U8.6F	F	U10.2F	9
11.6	11.5	11.8	12.4	11.9	12.3	U11.8s	10.5F	U9.9s	10.2	11.2	12.8	10
12.6	11.5	11.4	U11.8s	12.4	12.6	J12.0s	10.8	F	F	U11.7s	12.5	11
11.7	12.0	11.9	11.8	11.7	U11.4s	U10.9s	U9.0F	U7.7F	F	U9.1s	U8.9F	12
12.6	12.5	12.6	12.8	12.6	12.5	12.4	U11.6s	U11.8s	12.6	J12.0s	J13.0s	13
12.4	12.2	12.4	U12.5s	12.8	12.8	12.5	U10.8R	9.1	9.2	FS	10.0	14
11.6	12.4	J12.1R	12.5	12.5	J13.0s	13.3	12.3	U11.5s	11.0	10.8	U11.2s	15
12.0	12.5	12.5	12.6	13.3	14.2	13.8	J12.2R	F	F	F	FS	16
12.4	12.2	12.0	11.8	U11.6s	11.4	U11.8s	11.4	10.6	U10.6F	F	F	17
12.0	11.4	11.5	11.6	11.8	U12.0s	12.8	U11.8s	F	10.4	F	F	18
11.6	11.8	11.8	11.7	U11.6s	U11.6s	12.4	11.6H	F	11.0	11.4	U12.0s	19
11.3	11.2	11.2	11.2	11.5	U11.6s	J12.0s	U11.6s	10.6	F	U10.8F	J11.1F	20
11.2	10.8	11.1	11.5	U11.6s	U11.8s	U11.8s	10.7	U9.0F	F	F	F	21
10.6	10.5	10.8	11.0	11.6	12.4	12.5	U11.5s	10.9	11.2	10.8F	10.7	22
11.2	11.0	11.1	10.9	C	U11.6s	J12.0s	11.2	F	F	F	F	23
10.8	10.8	J11.0R	11.1	11.3	U11.6s	U11.5s	10.5	U9.6F	U9.4F	U9.3F	U8.7F	24
C	C	C	11.8	11.8	12.2	J11.8s	C	F	F	10.3	F	25
10.8	10.8	10.6	10.8	11.6	J11.8s	U11.6s	11.0	10.3	U9.5s	U9.5F	F	26
10.8	10.8	11.3	S	11.9	12.0	U11.8s	F	10.6	10.6	10.4	10.5	27
9.8	9.9	10.0	10.8	U11.6s	11.5	11.2	10.6	U9.7s	F	F	F	28
C	C	C	C	U11.2R	11.8	11.5	11.3	11.3	11.4	10.8	10.6	29
10.8	10.5	10.4	10.8	11.4	U11.7s	U11.6s	F	F	F	F	F	30
11.8	11.8	12.0	12.3	13.0	13.4	13.0	11.4	F	11.1	11.6	12.0	31
28	29	29	29	30	30	31	26	17	17	18	15	Count
11.3	11.4	11.5	11.8	11.8	11.9	11.8	11.2	U10.3	10.5	U10.8	10.7	Median
11.4	11.4	11.5	11.7	12.0	12.2	12.0	11.0	U10.0	10.5	U10.6	11.0	Mean

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : May 1958

TABLE 45—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	11.0	10.2	9.8	9.7	U9.1S	9.0	12.0	13.6	14.6	14.2	13.0	12.5
2	U9.6S	U9.6S	10.9	11.0	10.1	8.6	11.3	13.1	13.8	13.0	11.6	11.4
3	9.3	U9.0F	F	9.6	10.6	9.2	11.6	13.1	13.4	11.8	11.3	11.2
4	F	F	F	8.7	8.3	6.9	10.1	12.2	13.2	12.1	11.8	12.1
5	F	U10.8F	F	F	5.7F	6.5	10.3	12.2	13.2	12.8	11.8	10.8
6	F	F	F	U10.4F	F	U8.8F	10.9F	12.6	13.7	13.4	C	10.5
7	10.3F	F	F	F	U9.1F	9.5	11.8	12.3	13.9	13.2H	11.0	10.4
8	10.3F	10.5F	9.5	8.8F	8.7F	9.3F	11.5F	12.9	13.8	13.6	12.4	11.4
9	10.3	11.1	10.6	8.1	6.5	7.9	11.0	12.3	13.5	13.9	13.9	13.0
10	10.0F	10.3	10.8	U10.2F	U8.0F	7.8F	10.7	12.7	13.3	13.8	13.4	12.1
11	10.7	10.4	10.8	9.8	8.6	U8.0S	U11.1S	12.7	13.7	13.9	13.7	13.1
12	10.3	U10.4F	U11.7F	U11.0F	J10.0S	8.0	10.6	11.5	11.1	11.2	11.3	11.6
13	U8.0F	U9.0FS	FS	FS	8.2	7.4	10.8	12.2	13.1	12.6	12.5	12.6
14	11.4	F	F	F	U11.4S	11.0	J12.0S	13.6	U15.2S	14.2	13.6	12.6
15	U9.3S	U9.1S	FS	U9.6S	U9.7S	10.7	U11.8S	13.6	J14.0S	13.4	11.6	11.4
16	U9.8S	U9.4S	U9.5S	9.1	J7.1S	J7.2S	10.5	11.6	12.4	13.4	12.5	11.9
17	F	F	F	F	F	8.6	10.9	12.6	13.0	12.2	12.0	12.3
18	F	U9.6F	U10.4F	F	8.2	8.2	11.2	12.8	J13.4R	U13.0R	12.0	12.0
19	F	F	F	F	F	8.2	11.0	12.2	12.8	12.4	11.4	11.2
20	11.2	10.4	10.6	9.5	7.8	8.2	U10.2S	12.1	12.6	C	11.5	11.6
21	10.6	U10.2F	11.0	J10.4R	7.2	6.0	9.5	U11.6S	12.4	12.4	12.0	11.6
22	F	F	F	F	F	9.0	10.7	12.0	12.7	12.2	11.0	11.6
23	10.4	U10.2F	U9.9F	8.9	8.1	8.9	10.7	11.8	12.1	11.6	11.2	10.8
24	F	F	F	F	8.8	9.0	11.1	12.4	12.6	12.1	11.4	11.2
25	F	F	F	F	6.9	7.5	10.4	U11.8S	C	C	C	10.8
26	8.9	8.7	8.3	8.1	7.1	7.6	10.4	11.7	12.6	12.8	12.2	11.0
27	8.8	U8.4F	8.8	9.4	9.1	10.2	10.5H	11.1	11.8	11.9	11.3	11.0
28	10.3	U9.8S	U9.4S	9.0	8.0	8.0	11.1	13.0	U13.0R	12.8	11.4	10.4
29	F	9.0	U9.2F	9.3	8.9	9.3	11.3	12.3	U12.8R	U12.6R	C	10.4
30	U9.5S	8.4	7.4	7.1	6.2	7.1	10.5	12.0	13.1	13.7	12.9	11.5
31	U8.3F	F	F	8.4	8.7	9.2	10.6	12.0	12.5	U13.0R	12.4	11.8
Count	21	21	17	21	27	31	31	31	30	29	28	29
Median	10.3	U9.8	9.9	9.4	8.3	8.2	10.9	12.3	13.1	12.8	11.9	11.5
Mean	9.9	U9.8	9.9	9.3	8.4	8.4	10.9	12.4	13.1	12.9	12.1	11.6

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : May 1958

TABLE 45—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11.9	12.2	12.4	12.5	12.8	12.8	12.0	10.4	9.8F	10.8F	U10.7F	9.8	1
11.2	11.5	12.0	12.6	13.0	C	V12.0S	10.0F	F	F	U10.7F	U10.2R	2
U11.2R	11.5	12.1	12.6	13.2	U12.7R	J12.0S	F	F	F	F	F	3
11.8	11.8	12.4	12.8	13.2	13.4	U12.2S	C	F	F	F	F	4
10.3	10.6	11.0	11.5	11.5	11.6	10.8	F	F	F	F	F	5
10.4	10.3	10.6	11.1	11.3	11.5	10.8	U9.2F	U9.2F	F	F	F	6
10.0	10.0	10.4	10.7	11.1	U11.8S	U11.5S	10.3V	10.4	10.8	U10.8F	10.8F	7
10.9	10.8	10.9	10.9	11.3	11.3	10.5	U9.0F	U8.4F	U9.3F	U9.4F	F	8
12.9	12.8	12.2	12.4	12.4	12.0S	U11.2S	F	F	F	F	U10.6F	9
11.4	11.7	12.3	12.3	12.4	12.2	11.4	U10.3F	9.9	10.8	12.2	12.7	10
11.8	11.2	11.6	12.1	12.5	12.4	U11.4S	F	F	F	J12.1S	FS	11
11.9	12.0	11.8	11.8	U11.6S	11.3	10.4	U8.3F	F	8.6	FS	FS	12
12.7	12.5	12.7	12.7	12.5	12.6	J12.0S	11.4	12.5	12.3	12.5	12.7	13
12.0	12.2	12.4	12.6	12.7	U12.6S	U11.8S	U9.6S	9.3	U9.5S	U9.9S	U9.8S	14
11.9	12.5	12.3	12.4	12.7	13.3	13.0	U11.7S	11.3	10.9	11.0	11.0	15
12.2	12.6	12.5	12.7	13.8	U13.8R	J13.2S	11.0	F	F	F	F	16
12.4	12.2	12.0	U11.6R	11.4	U11.7S	U11.6S	10.9	F	F	F	F	17
11.7	11.4	11.6	11.5	U12.0S	12.6	12.7	U11.0F	F	U10.4F	F	F	18
11.6	11.8	11.7	11.8	U11.6S	U11.8S	12.5	U11.3F	F	11.1	11.6	12.2	19
11.1	11.3	J11.2R	11.4	11.4	U11.8S	J11.8S	11.0	U10.2F	F	F	10.9	20
10.8	11.0	11.1	11.6	U11.8S	U12.0S	11.4	S	U8.6F	F	F	F	21
10.6	10.8	C	11.4	12.0	12.7	12.2	J11.0R	11.0	11.1	F	10.3F	22
11.0	11.0	11.0	10.8	11.4	U11.8S	U11.7S	10.8	F	F	F	F	23
10.8	11.0	11.0	11.1	11.5	J11.8S	11.0	J10.0F	U9.5SF	U9.2F	F	F	24
C	C	11.7	11.6	12.3	U11.8S	C	F	F	10.2	F	9.2	25
19.8	10.8	10.6	11.2	11.6	U11.6S	11.4	10.5	9.8	9.8F	F	9.6	26
10.8	11.0	11.4	11.8	12.0	U11.8S	11.1	U10.6A	10.5	10.5	10.4	10.6	27
0.8	10.0	10.4	11.3	U11.6S	11.4	11.1	FS	F	F	F	U8.7F	28
C	C	C	10.6	11.6	11.9	11.3	11.4	11.6	11.0	10.8	10.4	29
10.5	10.6	10.8	11.0	11.6	11.8	11.1	F	F	F	F	F	30
11.6	11.9	12.0	U12.8R	13.2	13.3	12.2	10.6	10.6	11.4	U11.8S	10.1	31
29	29	29	31	31	30	30	22	16	17	13	17	Count
11.2	11.4	11.7	11.6	12.0	11.8	11.6	U10.6	10.0	10.8	10.8	10.4	Median
11.3	11.4	11.6	11.8	12.1	12.2	11.6	U10.5	10.2	10.5	11.1	10.6	Mean

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : foF1
Unit : Mc
Month : May 1958

TABLE 46
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								A	L	L	L	L
4								L	L	L	L	L
5												
6									L	L	C	C
7									L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10												
11								L	L	L	L ^{LH}	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15												
16								L	L ^{LH}	L	L ^{LH}	L ^{LH}
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	C	L	L
20												
21								L	L	L	L	L ^{LH}
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	C	L	C
25												
26								L	L	L	L ^{LH}	L ^{LH}
27								L	L	L	L ^{LH}	L ^{LH}
28								L	L	L	C	C
29								L	L	L	L ^{LH}	L ^{LH}
30												
31								L	L	L	L	L
Count
Median
Mean

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : May 1958

TABLE 46
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
C	L	L	A	L	L							4
L		L	L	L								5
												6
L	L	L	L	L	L							7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L ^H	L	L	L	L							11
L	L	L	L	L ^H	L ^H							12
L	L	L	L	L	L							13
L	L	L ^H	L	L	L ^H							14
L ^H	L	L	L	L ^H	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L ^H	L	L	L	L							19
L	L ^H	L	L	L	L							20
L ^H	L ^H	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
C	C	O	L	L	L							25
L	L	L	L	L	L							26
L ^H	L	L	L	L	L							27
L ^H	L ^H	L	L	L	L							28
C	C	L	L	L	L							29
L ^H	L	L	L	L	L							30
L	L	L	A	L								31
..	..	..	..	..	..							Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : May 1958

TABLE 46—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0630	0730	0830	0930	1030	1130
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Count .						
Median .						
Mean .						

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : May 1958

TABLE 46—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L									1
L	L	L	L	L								2
L	L	L	L	L								3
L	L	L	L	L								4
												5
L	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
												10
L ^H	L ^H	L	L	L								11
L	L	L ^H	L	L								12
L	L	L	L ^H	L								13
L	L	L	L	L								14
												15
L	L	L	L ^H	L								16
L	L	L	L	L								17
L	L ^H	L ^H	L	L								18
L	L	L	L	L								19
	L ^H	L	L	L								20
L ^H	L	L	L	L ^H								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
C	C	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L								27
L ^H	L ^H	L	L	L								28
C	C	L	L	L								29
L ^H	L	L	L	L								30
L	L	L	L	L								31
..	..	..	..	..	..							Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc

Month : May 1958

TABLE 47
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3.0	A	A	A	A
2								3.5	A	A	A	A
3								3.1	A	A	A	A
4								3.2	A	B	A	A
5							2.3	3.3	A	A	A	A
6								3.0	A	A	C	C
7									A	A	A	B
8							2.3	3.2	A	A	A	A
9								R	A	A	A	A
10								3.1	A	A	A	A
11							U2.3R	A	A	A	A	A
12							U2.2R	A	A	A	A	C
13								A	A	A	A	A
14								3.0	U3.5R	A	A	A
15							U2.3R	U2.9R	A	A	A	A
16								U2.9A	A	A	A	A
17							2.4H	A	A	A	A	A
18								A	A	B	A	A
19								A	A	A	B	A
20								A	A	C	A	A
21							2.1H	3.0	A	A	A	A
22							2.1H	A	3.5	A	A	A
23							2.2	A	A	A	A	A
24							2.3H	3.0	A	A	C	A
25							U2.4F	A	A	C	A	A
26							2.3H	3.2	3.5	3.8	A	A
27								A	A	A	A	A
28								3.3	A	A	A	C
29								3.1	A	B	A	A
30							R	3.2	3.5	A	A	A
31								3.1	A	A	A	B
Count							12	18	4	1	..	..
Median							2.3	3.1	..	..	..	..
Mean							2.3	3.1	..	..	..	..

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc

Month : May 1958

TABLE 47

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A								1
A	A	A	A	A								2
A	A	A	4.0	A	A							3
C	A	A	A	A	A							4
A	A	A	A	A	A							5
												6
A	A	A	A	A								7
A	A	A	A	A	A							8
A	A	A	A	A	A							9
A	A	A	A	A	A							10
												11
A	A	A	A	A	A							12
A	A	A	A	A	A							13
A	A	A	A	A	A							14
A	A	A	A	A	A							15
												16
A	A	A	A	A	A							17
A	A	A	A	A	A							18
A	A	A	A	A	A							19
A	A	A	A	A	A							20
												21
A	A	A	A	A	A							22
A	A	A	A	A	A							23
A	A	A	A	A	A							24
C	C	C	A	A	A							25
												26
A	A	A	A	A	A							27
B	A	A	A	A	A							28
A	A	A	A	A	A							29
C	C	C	A	A	A							30
A	A	A	A	A	A							31
			2	4	2							Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc

Month : May 1958

TABLE 47—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2.8	A	A	A	A	A
2							3.0	A	A	A	A	A
3							2.8	A	A	A	A	A
4							2.8	A	B	A	A	A
5							2.9	A	A	B	A	A
6							2.9	3.4	A	A	C	A
7								A	A	A	A	A
8							2.8	3.4	A	A	A	A
9							2.8	3.4	A	A	A	A
10							2.7	A	A	A	A	A
11							U2.8AH	A	A	A	A	A
12							A	A	A	A	A	A
13							2.7H	A	A	A	A	A
14							U2.5R	U3.3R	A	A	A	A
15							U2.8R	3.2H	A	A	A	A
16							2.5H	A	A	A	A	A
17							2.8H	A	A	A	A	A
18							U2.6R	U3.2R	A	A	A	A
19							2.6	A	A	A	A	A
20							A	A	A	C	A	A
21							2.6	A	A	A	A	A
22							2.9H	3.2	A	A	A	A
23							A	A	A	A	A	A
24							2.6	A	A	A	A	A
25							A	A	C	C	C	C
26							2.8	3.5	A	A	A	A
27							A	A	A	A	A	A
28							2.8	A	A	A	A	A
29							2.8	A	A	A	C	C
30							2.8	3.4	A	A	A	A
31							2.7	A	A	A	A	A
Count . .							25	9	..	..	..	..
Median . .							2.8	3.4	..	..	..	..
Mean . .							2.8	3.3	..	..	..	..

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : May 1958

TABLE 47—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	A								1
A	A	A	B	A								2
A	A	A	3.7	A								3
A	A	A	A	A								4
A	A	A	A	A								5
A	A	A	A	A								6
A	A	A	A	A								7
A	A	A	A	A								8
A	A	A	A	A								9
A	A	A	A	2.9								10
A	A	A	A	A								11
A	A	A	A	A	A							12
A	A	A	A	A	U2.3R							13
A	A	A	A	A								14
A	A	A	A	A								15
A	A	A	A	A	A							16
A	A	A	A	A								17
A	A	A	A	2.9								18
A	A	A	A	A								19
A	A	A	A	A								20
A	A	A	A	A								21
A	A	A	A	A								22
A	A	A	A	A								23
A	A	A	A	A								24
C	C	A	3.8	3.2	A							25
A	A	A	A	A	A							26
A	A	A	A	A								27
A	A	A	A	A								28
C	C	A	B	3.2								29
A	A	A	A	A								30
A	A	A	U3.7A	A								31
..	..	..	4	5	2							Count
..	..	..	..	3.1	..							Median
..	..	..	..	3.1	..							Mean

Sweep 1°0 Mc. to 25°0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : May 1958

TABLE 48

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							8.0	G	11.6	12.6	12.2	13.2
2							7.0	3.8	11.8	12.4	12.4	12.6
3								8.0	11.4	12.0	12.0	12.0
4		5.0						5.0	11.0	11.6	12.4	12.0
5	6.0	3.6					G	G	11.4	12.0	12.8	12.6
6							4.0	7.6	12.0	11.0	C	C
7							5.2	8.0	8.6	11.0	12.0	12.0
8							G	G	10.2	11.4	12.0	12.1
9								G	8.4	10.6	12.0	12.2
10								G	11.0	9.4	12.2	12.2
11							G	U7.08	9.0	10.2	12.0	11.2
12			5.4				G	U9.68	11.1	12.0	12.2	C
13	U6.8s							8.6	9.8	11.0	11.8	12.0
14								G	G	11.1	11.6	10.6
15							G	G	8.6	10.2	11.9	12.2
16	S	U4.3s						7.8	10.1	10.4	11.7	12.2
17	5.6						G	6.6	11.0	10.6	11.0	11.0
18							3.1	7.0	7.6	8.6	11.0	10.6
19								7.4	9.6	10.4	11.0	11.5
20								9.4	9.4	C	11.2	12.0
21		3.1		3.5			4.0	G	8.5	11.2	11.2	12.2
22		5.4					2.5	3.4	6.8	10.0	11.0	11.8
23							G	7.6	8.8	10.0	10.0	10.6
24	2.7						2.5	6.5	9.4	9.6	10.4	10.8
25							G	8.4	10.0	C	C	C
26		2.6					G	6.4	4.0	8.6	11.0	12.0
27	7.0		3.2			C	5.2	8.0	8.6	10.0	11.0	11.0
28								G	9.2	11.0	11.6	11.2
29	3.1							G	9.0	10.4	C	C
30							G	G	G	G	10.6	11.4
31	6.6	3.2	6.8	6.0				4.1	8.6	9.6	11.0	11.0
Count	7	7	3	2	..	..	19	31	31	29	28	20
Median	6.0	3.6	..	..	..	..	..	6.4	9.4	10.6	11.6	12.0
Mean	5.4	3.9	..	..	..	..	4.6	7.0	9.5	10.7	11.5	11.7

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : May 1958

TABLE 48
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
12.6	12.0	12.2	12.0	10.2	8.6	8.4				7.6	2.6	1
12.4	12.0	12.0	10.8	8.0	C							2
12.0	11.5	11.0	9.0	5.8	8.0							3
C	12.0	10.5	23.0	16.0	8.6			C				4
13.0	12.2	12.6	12.4	10.8	8.0		C			2.2		5
12.2	12.0	12.6	11.6	9.0	7.0							6
12.2	12.0	12.0	11.4	9.0	8.0				2.6	3.8		7
12.2	11.8	12.0	11.4	10.4	8.6					6.6		8
12.4	12.0	12.0	12.0	9.8	8.0		C			2.8		9
12.0	12.6	12.0	12.0	8.6	8.0							10
12.1	12.1	12.0	11.8	U8.0s	U7.6s					U4.3s		11
12.2	12.0	12.0	11.8	8.7	U8.0s					4.1		12
11.6	11.3	10.6	10.6	U8.5s	U6.6s							13
12.2	12.0	10.9	11.6	U10.0s	U8.0s							14
12.0	11.6	11.8	11.0	8.4				2.2	8.1			15
12.0	11.1	11.5	8.8	8.8	U6.6s						4.7	16
11.4	11.0	11.6	11.0	8.0	7.0					7.0		17
11.2	11.4	11.0	10.6	G	6.7						2.3	18
12.0	11.0	11.4	10.6	8.6	6.8							19
12.0	12.0	12.0	11.0	9.0	8.0							20
12.0	11.8	12.0	10.7	9.6	U7.5s						2.6	21
11.6	11.6	10.6	9.6	G	G					2.7		22
11.2	10.8	10.6	8.6	G	7.3							23
11.3	11.4	12.0	10.8	9.0	7.0	2.7						24
C	C	C	10.6	G	7.8		C					25
11.4	11.4	11.6	9.0	10.2	13.5	U9.0s			2.4			26
11.4	11.8	10.6	19.0	8.2	7.6	U5.0s			4.0	5.0		27
11.4	11.4	11.2	11.0	10.2	6.6				U5.0s	5.0		28
C	C	C	C	G								29
11.4	11.0	10.6	12.6	9.4	8.6	4.0				10.2	12.4	30
11.4	11.4	11.4	9.0	8.0	G							31
28	29	29	30	30	28	5	..	1	5	12	5	Count
12.0	11.8	11.6	11.0	8.8	7.7	5.0	..	..	4.0	4.6	2.6	Median
11.9	11.7	11.5	11.5	9.2	7.8	5.8	..	..	4.4	5.1	4.9	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs
Unit : Mc
Month : May 1958

TABLE 48—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							G	9.6	12.2	12.4	13.0	12.4
2							7.8	9.8	12.0	13.2	12.6	12.2
3							8.0	9.0	11.6	12.0	12.0	12.0
4							G	9.2	11.2	12.6	12.0	12.2
5	6.8						G	10.0	11.8	12.0	12.5	12.6
6							8.0	G	11.4	12.2	C	12.2
7		8.0					10.8	8.4	11.0	12.0	12.0	12.0
8							G	8.2	11.0	12.0	12.4	12.0
9							G	G	10.0	11.6	12.0	12.6
10							G	9.0	11.0	11.4	12.0	12.0
11			11.08	3.2			3.7	8.3	9.6	11.6	11.8	12.0
12	S		4.0				8.2	10.4	11.3	12.1	12.4	11.9
13	3.4						G	9.0	10.6	11.5	11.6	11.8
14							G	G	11.0	8.6	11.8	11.7
15							5.1	G	10.1	12.0	12.5	11.8
16	3.6	2.9					G	10.8	10.2	11.6	11.8	12.3
17							G	8.2	10.6	12.0	12.0	12.0
18							3.3	G	8.0	11.0	11.0	11.0
19			3.0				G	8.2	9.4	11.0	11.4	11.8
20							11.6	8.3	10.4	C	12.0	12.0
21	4.4		2.5				G	7.6	9.7	11.2	12.0	11.8
22							G	G	8.4	11.6	11.8	11.4
23							7.0	9.2	9.4	10.8	10.7	11.0
24							8.2	8.6	10.2	11.0	11.2	10.4
25		2.4					6.5	8.8	C	C	C	C
26		2.3					G	G	8.0	10.8	11.2	11.0
27		3.6					6.0	8.0	10.0	11.0	11.0	11.2
28							G	7.8	10.4	11.2	11.4	11.4
29							G	8.6	10.4	11.0	C	C
30							G	G	8.0	8.4	11.2	11.2
31	3.6	7.0	7.0				5.4	10.0	9.2	10.6	11.0	11.0
Count	5	6	5	1	..	..	31	31	30	29	29	29
Median	3.6	3.2	4.0	..	..	..	..	8.3	10.4	11.6	11.9	11.9
Mean	4.4	4.4	4.1	..	..	..	7.1	8.9	10.3	11.4	11.8	11.8

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : May 1958

TABLE 48—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
12.0	12.0	12.0	10.6	10.8	9.6				4.4	5.6	5.6	1
12.6	11.4	12.0	8.2		C							2
12.2	11.8	10.8	5.8	7.0								3
12.0	11.4	20.0	16.0	8.0	3.4		C					4
12.2	12.6	12.0	11.0	9.0								5
12.2	12.0	11.4	10.0	8.6	U7.0s							6
12.0	12.0	11.4	10.0	8.2					3.4	4.6		7
12.4	12.0	12.0	10.0	9.0					5.6	4.4		8
12.0	12.0	12.0	9.7	8.4								9
12.2	12.0	12.0	10.0	7.4								10
12.3	12.2	11.8	8.3	U7.6s								11
12.1	11.6	11.8	9.0	8.1	S				3.1			12
12.1	11.0	11.0	9.6	U8.0s	G							13
12.0	11.1	11.0	10.4	U9.0s								14
11.4	11.2	12.0	9.0					8.0			U4.6s	15
12.1	11.8	9.9	9.1	8.3	S			U4.1s		U3.8s	U11.6s	16
12.0	11.0	11.0	8.8	8.0	U6.0s							17
11.0	11.0	11.0	8.6	G								18
11.6	11.6	11.2	8.6	6.6								19
12.0	11.8	11.5	9.0	8.4	3.2						4.2	20
12.0	11.5	11.0	10.0	8.4								21
11.6	11.6	C	G	G						3.6		22
11.0	10.6	9.4	8.0	7.5	6.6				U2.7s		2.2	23
11.0	11.8	11.8	9.2	8.0	4.4							24
C	C	10.2	G	U6.4s	S							25
11.0	11.2	11.0	G	16.0	U11.5s	S			2.6	6.0	6.2	26
12.0	11.0	13.0	13.0	8.2	2.6	S			8.6			27
11.0	11.0	11.4	10.4	9.8					5.2	4.8		28
C	C	C	G	7.0								29
12.0	11.8	11.0	10.4	8.8	7.4				7.6	10.0	18.0	30
11.0	11.4	11.0	7.2	7.0	3.0							31
29	29	29	31	29	12	..	..	2	9	8	7	Count
12.0	11.6	11.4	9.1	8.1	5.2	..	..	..	4.4	4.7	5.6	Median
11.8	11.6	11.6	9.6	8.4	5.9	..	..	..	4.8	5.4	7.5	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : May 1958

TABLE 49

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1									3.9	4.1	4.4	4.6
2							2.5	3.5	3.8	4.2	4.4	4.8
3							3.0	4.6	3.8	4.2	4.5	5.0
4		2.0						3.3	3.8		4.6	4.8
5	2.2								3.8	4.2	4.6	4.6
6								3.4	3.8	4.6	C	C
7							4.5	3.4	3.8	4.3	4.6	4.6
8									3.7	4.3	4.4	5.1
9									3.7	4.1	4.3	4.5
10									3.9	4.3	4.4	4.6
11								3.1	3.6	4.0	4.3	4.5
12			1.8					3.0	3.5	4.0	4.3	C
13	1.9							3.1	3.7	3.9	4.2	4.4
14										4.0	4.2	4.2
15									3.6	3.9	4.2	4.3
16	2.1	1.9						3.1	3.6	4.0	4.1	4.3
17	3.8							3.1	3.6	4.0	4.3	4.6
18							3.0	3.0	3.6		4.4	4.4
19								3.0	3.6	4.0	4.4	4.4
20								3.4	3.6	C	4.2	4.4
21		1.8		2.0					3.6	4.0	4.2	4.4
22		1.8						3.0	3.6	4.0	4.2	4.4
23								3.1	3.6	4.0	4.2	4.5
24	2.0						2.3		3.6	4.0	4.4	4.7
25								3.1	3.7	C	C	C
26								3.2	3.8	4.2	4.4	4.6
27	2.6					C	2.6	3.6	3.8	4.1	4.4	4.6
28									3.8	4.2	4.4	4.5
29	2.4								3.8	4.0	C	C
30											4.3	4.4
31	2.0	1.9	2.2					3.2	3.7	4.0	4.3	
Count	8	5	2	1	..	..	6	19	29	26	27	26
Median	2.2	1.9	..	..	..	..	2.8	3.1	3.7	4.0	4.3	4.5
Mean	2.4	1.9	..	..	..	..	3.0	3.3	3.7	4.1	4.3	4.5

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : May 1958

TABLE 49

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
4.7	4.7	4.6	4.0	3.6	3.3	3.0				1.5	2.0	1
4.6	4.7	4.3	4.0	3.8	C							2
4.8	4.6	4.5	4.0	3.7	2.9							3
C	4.6	4.2	7.4	5.2	3.3			C				4
4.8	4.6	4.4	4.2	3.6	3.0		C					5
4.6	4.4	4.2	4.0	3.5	2.9							6
4.6	4.6	4.4	4.0	3.5	2.9				2.0	2.4		7
4.8	4.6	4.3	3.9	3.6	3.0							8
4.8	4.6	4.3	4.0	3.5	2.8					2.0		9
4.4	4.2	4.2	3.9	3.4	2.8							10
4.5	4.4	4.1	3.8	3.4	2.8					2.5		11
4.4	4.3	4.1	3.8	3.5	2.8					1.8		12
4.5	4.4	4.1	3.9	3.4	2.8							13
4.4	4.3	4.1	3.8	3.5	2.9							14
4.5	4.2	4.1	3.8	3.5				1.8	2.3			15
4.3	4.3	4.1	3.8	3.8	3.2						2.0	16
4.6	4.4	4.0	3.9	3.6	2.8					2.6		17
4.4	4.4	4.0	3.8		3.0							18
4.4	4.4	4.1	3.7	3.5	2.8							19
4.4	4.4	4.4	3.8	3.5	3.0							20
4.6	4.4	4.2	4.0	3.5	2.8							21
4.5	4.4	4.3	3.8							2.0	2.2	22
4.4	4.4	4.3	3.9	C	3.4							23
4.6	4.4	4.2	4.0	3.9	3.2	2.2						24
C	C	C	4.0		3.0							25
4.5	4.6	4.3	4.2	5.2	4.4	3.6						26
4.7	4.4	4.6	10.0	3.6	3.0	2.2			2.1	2.2		27
4.5	4.5	4.2	4.0	3.7	3.0				2.2	2.3		28
C	C	C	C									29
4.6	4.4	4.4	4.3	4.2	3.4					3.0	3.4	30
4.4	4.4	4.3	6.7	4.0								31
28	29	29	30	26	26	4	..	1	4	10	4	Count
4.5	4.4	4.2	4.0	3.6	3.0	..	..		..	2.2	..	Median
4.5	4.4	4.	4.4	3.7	3.0	..	..	..	..	2.2	..	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : May 1958

TABLE 49—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								3.5	4.0	4.2	4.6	4.6
2							3.2	3.6	4.0	4.5	4.4	4.5
3							4.6	4.8	4.0	4.3	4.6	4.8
4								3.5	4.2	4.7	4.5	4.7
5	2.2							3.5	4.0		4.6	4.7
6							3.0		4.0	4.4	C	4.6
7		3.7					3.0	3.7	4.0	4.3	4.6	4.6
8								3.4	4.0	4.3	4.5	5.0
9									3.9	4.2	4.4	4.6
10								3.6	4.0	4.1	4.4	4.4
11			2.0	1.9			2.8	3.3	3.9	4.1	4.4	4.4
12			1.8				2.7	3.3	3.8	4.2	4.5	4.4
13	2.0							3.4	3.8	4.1	4.5	4.4
14									3.8	4.1	4.3	4.3
15							2.9		3.7	4.0	4.2	4.3
16	2.2							3.5	3.8	4.1	4.2	4.4
17								3.4	4.0	4.2	4.4	4.4
18							3.2		4.0	4.2	4.4	4.4
19								3.4	3.7	4.2	4.4	4.4
20							4.6	3.4	3.8	C	4.3	4.4
21	2.2							3.4	3.9	4.2	4.3	4.5
22									3.9	4.1	4.4	4.5
23							2.8	3.4	3.8	4.2	4.3	4.5
24							3.0	3.6	3.9	4.2	4.3	4.7
25							2.8	3.4	C	C	C	C
26									4.0	4.2	4.5	4.7
27		2.0					3.0	3.6	4.0	4.2	4.6	4.5
28								3.4	4.0	4.2	4.4	4.5
29								3.4	4.0	4.2	C	C
30									4.0	4.4	4.4	4.7
31	2.1	3.4	2.3				3.1	3.6	3.9	4.1	4.4	4.5
Count	5	3	3	1	..	..	14	23	30	28	28	29
Median	2.2	..	..	..	..	..	3.0	3.4	4.0	4.2	4.4	4.5
Mean	2.1	..	..	..	..	..	3.2	3.5	3.9	4.2	4.4	4.5

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : May 1958

TABLE 49—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.6	4.6	4.1	4.0	3.5	3.0				3.0	2.0		1
4.6	4.5	4.0			C							2
4.6	4.5	4.3	4.4	3.3								3
4.6	4.4	10.2	5.2	4.4	3.1		C					4
4.7	4.5		4.4	3.4								5
4.6	4.4	4.2	3.8	3.2	2.5							6
4.6	4.5	4.2	3.8	3.2					2.8	2.8		7
4.6	4.5	4.3	3.7	3.4					2.0	2.2		8
4.6	4.4	4.1	3.7	3.1								9
4.4	4.2	4.1	3.8	3.1								10
4.4	4.3	4.0	3.7	3.1								11
4.5	4.2	4.0	3.7	3.2	2.5				2.0			12
4.5	4.2	4.0	3.6	3.1								13
4.5	4.2	4.0	3.6	3.1								14
4.4	4.1	3.9	3.6					2.7			2.1	15
4.3	4.2	4.0	3.8	3.6	2.7			1.9		2.1	2.7	16
4.4	4.2	4.2	3.8	3.2								17
4.4	4.2	4.0	3.8									18
4.4	4.4	4.0	3.4	3.2								19
U4.40	4.3	4.0	3.8	3.4	2.7						1.8	20
4.6	4.5	4.0	3.8	3.4								21
4.4	4.4	C										22
4.4	4.2	4.0	3.8	3.6	2.8						2.0	23
4.5	4.4	4.0	3.8	3.4	3.2							24
C	C	4.1				C						25
4.6	4.6	5.4		4.8	4.5	2.2			2.0	2.6	2.2	26
4.7	4.4	5.4	7.7	3.3	2.4				2.5			27
4.6	4.4	4.0	4.4	3.4					2.3	2.4		28
C	C	C		3.3								29
4.9	4.4	4.4	4.4	3.6	3.0					3.4	3.6	30
4.4	4.3	4.0	4.6	3.2								31
29	29	28	26	26	11	1	..	2	7	7	6	Count
4.5	4.4	4.0	3.8	3.3	2.8	..	..	..	2.3	2.4	2.2	Median
4.5	4.4	4.4	4.1	3.4	2.9	..	..	..	2.4	2.5	2.4	Mean

Sweep 1.0 Mc, to 25.0 Mc, in 27 seconds,

Characteristic : fmin

TABLE 50

Latitude : 10° 2' N

Unit : Mc

Ionospheric Data

Longitude : 77° 5' E

Month : May 1958

75° 0' E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2.2	2.1	1.8	1.8	1.8	1.9	2.6	2.4	2.6	2.7	3.2	3.4
2	2.0	2.0	1.7	1.7	2.0	1.6	1.9	2.3	2.6	3.3	3.2	3.7
3	2.2	2.2	1.8	1.8	1.8	1.9	2.2	2.6	2.5	2.9	3.6	3.6
4	2.2	1.8	2.1	1.5	1.8	1.7	2.4	2.3	2.8	5.0	3.4	3.4
5	1.5	1.9	1.8	1.7	1.8	1.7	2.2	2.5	2.6	3.2	4.0	3.8
6	1.4	1.7	1.8	2.1	1.9	1.8	2.4	2.4	3.0	3.8	C	C
7	2.0	2.2	2.4	2.0	2.1	2.1	2.6	3.1	2.6	3.0	3.0	3.6
8	2.3	2.8	1.8	2.0	1.6	1.7	2.0	2.4	2.8	3.0	3.2	5.1
9	2.0	1.8	1.7	2.1	1.8	1.7	2.4	2.6	2.5	3.0	3.0	3.3
10	2.1	1.2	1.7	1.6	1.6	1.6	2.3	2.2	2.5	3.2	3.1	3.4
11	1.7	1.7	1.7	1.6	1.9	2.0	2.1	1.9	2.3	2.8	3.2	3.5
12	1.6	1.6	1.4	1.6	1.9	2.0	1.8	2.1	2.4	2.9	3.0	C
13	1.5	2.1	1.7	1.5	1.8	1.8	2.4	2.2	2.6	2.7	3.0	3.2
14	2.1	2.3	2.1	1.8	1.5	1.6	2.2	2.2	2.6	2.8	3.0	3.0
15	2.0	1.9	2.2	2.1	2.1	2.0	2.0	2.3	2.3	2.7	2.9	3.0
16	2.0	1.6	1.9	1.9	2.0	1.8	2.4	2.1	2.4	2.6	2.9	3.2
17	1.3	1.7	2.6	2.4	1.8	1.7	2.0	2.0	2.6	3.0	3.0	3.4
18	2.3	2.4	2.2	2.0	1.7	1.7	2.2	2.0	2.4	4.0	3.0	3.2
19	1.8	1.8	1.8	2.0	1.9	2.0	2.4	2.0	2.6	2.0	4.4	3.0
20	2.0	1.8	C	1.3	1.8	2.4	2.3	2.2	2.4	C	3.0	3.2
21	1.9	1.4	1.7	1.6	1.8	1.8	1.9	2.0	2.4	2.8	2.8	3.0
22	1.7	1.6	1.7	1.8	1.6	1.8	1.7	2.0	2.5	3.0	3.2	3.1
23	2.0	1.9	2.0	2.0	1.7	1.7	1.9	2.1	2.5	2.8	2.8	3.1
24	1.4	2.0	2.1	1.9	1.7	1.8	1.8	2.2	2.4	2.9	2.9	3.0
25	1.8	2.3	1.7	1.7	1.7	1.7	1.8	2.0	2.3	C	C	C
26	1.8	1.7	1.7	1.6	1.6	1.9	1.9	2.0	3.0	.	2.8	3.2
27	1.9	1.9	2.0	1.8	1.9	1.9	1.4	2.1	2.6	3.0	3.2	3.4
28	1.9	1.8	2.1	2.3	1.8	1.8	2.3	2.4	2.8	2.8	3.0	3.2
29	1.8	2.4	2.0	1.8	1.8	2.0	2.7	2.2	2.4	2.8	C	C
30	1.6	1.7	1.5	1.7	1.7	1.6	1.8	2.0	2.7	3.2	2.8	2.8
31	1.8	1.7	1.4	1.7	1.7	2.0	2.0	2.2	2.4	2.6	3.0	5.0
Count	31	31	30	31	31	31	31	31	31	29	28	2.8
Median	1.9	1.8	1.8	1.8	1.8	1.8	2.2	2.2	2.5	2.9	3.0	3.2
Mean	1.9	1.9	1.9	1.8	1.8	1.8	2.1	2.2	2.6	3.0	3.1	3.3

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : May 1958

TABLE 50

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
3.3	3.4	3.4	2.7	3.2	2.1	1.6	1.4	1.8	1.6	1.4	1.5	1
3.4	3.7	3.0	U3.4s	3.0	C	2.2	1.7	2.0	2.1	1.6	2.0	2
3.7	3.4	3.4	2.9	2.6	2.2	1.9	1.4	1.9	2.0	2.0	2.0	3
C	3.8	3.1	3.0	2.8	2.4	2.0	1.5	C	1.7	1.9	1.9	4
3.6	3.2	3.0	3.0	2.7	2.2	2.0	C	1.9	1.6	1.6	1.7	5
3.1	3.2	3.0	2.6	2.5	2.1	2.1	1.4	1.8	2.1	2.0	1.7	6
3.4	3.2	3.0	2.9	2.6	2.7	2.0	1.5	1.8	2.0	2.1	2.8	7
3.7	3.5	3.0	2.8	2.6	2.3	2.2	1.6	1.7	2.0	1.8	1.7	8
3.6	3.4	3.0	3.0	2.5	2.2	1.9	C	2.0	1.8	1.7	1.5	9
3.4	3.2	4.0	2.7	2.5	2.1	2.0	1.2	U1.5s	1.7	1.7	1.7	10
3.0	3.2	3.0	2.7	2.7	2.4	U2.0s	U1.6s	1.7	1.8	1.6	2.0	11
3.2	3.0	2.7	2.5	2.5	2.0	1.8	1.5	1.6	1.8	1.6	1.8	12
3.4	3.1	3.0	2.6	U2.4s	1.7	1.8	U1.6s	1.8	1.9	2.1	2.2	13
3.1	3.1	U2.8s	2.4	2.6	U2.4s	U2.3s	1.6	1.4	1.6	1.6	1.7	14
3.0	2.9	2.6	2.6	2.7	2.9	2.6	2.1	1.7	1.6	2.3	2.5	15
3.3	3.1	3.0	2.5	2.1	2.9	1.8	1.7	1.7	1.8	1.8	1.6	16
3.2	3.3	3.0	2.8	2.4	2.1	2.0	2.0	2.0	2.0	1.8	2.2	17
3.4	3.2	2.8	2.6	2.8	2.1	1.8	1.8	2.0	2.0	1.8	1.4	18
3.6	3.4	3.0	2.6	2.4	2.2	2.0	2.0	2.0	2.2	2.2	2.0	19
3.2	3.2	3.0	2.6	2.6	2.2	1.9	2.0	2.1	2.0	1.7	1.8	20
3.0	3.0	3.0	2.6	2.5	2.1	2.0	1.8	2.0	1.9	1.7	1.6	21
3.1	3.2	3.0	2.7	2.8	2.4	2.2	1.5	1.5	1.9	1.6	1.8	22
3.2	3.2	3.0	2.5	C	2.0	2.2	1.9	U2.3s	2.2	2.2	2.0	23
3.0	3.2	3.0	2.6	2.4	2.0	1.8	1.8	2.0	2.2	1.7	1.9	24
C	C	C	2.7	2.8	2.2	2.3	C	U1.9s	2.0	1.8	1.6	25
3.2	3.8	3.0	3.0	2.9	2.2	1.6	1.6	1.7	1.5	2.1	1.8	26
3.7	3.2	3.0	2.8	2.6	2.2	2.1	1.9	2.2	1.4	2.0	2.3	27
3.2	3.0	3.0	2.8	2.2	2.2	2.2	2.0	1.9	1.6	1.5	2.6	28
C	C	C	C	3.0	3.0	2.2	1.5	1.9	1.7	2.2	1.5	29
3.2	3.1	3.2	2.5	2.2	1.8	2.1	1.7	1.8	2.4	1.6	1.5	30
3.2	3.2	3.0	2.8	2.6	2.2	2.2	2.2	2.0	2.4	2.2	2.4	31
28	29	29	30	30	30	31	28	30	31	31	31	Count
3.2	3.2	3.0	2.7	2.6	2.2	2.0	1.6	1.9	1.9	1.8	1.8	Median
3.3	3.3	3.0	2.7	2.6	2.2	2.0	1.7	1.9	1.9	1.8	1.9	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : May 1958

TABLE 50—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1.8	1.5	1.7	1.8	1.7	2.1	2.1	2.4	2.8	2.8	3.4	3.2
2	1.7	2.2	2.0	1.8	1.8	1.8	2.3	2.4	3.0	3.0	3.1	3.2
3	2.1	1.7	1.7	2.0	2.0	2.3	2.0	2.4	2.7	3.0	3.8	3.6
4	2.2	2.1	1.5	1.7	1.7	2.2	2.3	2.6	3.4	3.8	3.8	3.5
5	1.6	2.0	2.0	1.6	1.7	2.1	2.2	2.6	2.9	5.3	3.8	3.8
6	1.4	2.0	2.2	1.8	1.7	2.0	2.3	2.7	3.0	3.1	C	3.3
7	1.6	2.1	2.3	2.0	2.1	2.2	2.2	2.2	2.8	3.1	3.2	3.5
8	2.8	2.2	2.1	1.6	1.8	2.1	2.1	2.6	3.1	3.0	3.3	3.8
9	2.1	2.0	1.6	1.8	1.8	2.4	2.4	2.2	2.8	2.8	3.2	3.2
10	1.3	1.3	1.6	1.6	1.6	2.1	2.0	2.1	2.9	3.2	3.2	U3.25
11	1.7	1.6	1.3	1.8	2.3	1.9	2.0	2.2	2.5	3.1	3.3	3.2
12	1.6	1.5	1.5	1.6	2.1	2.1	1.7	2.2	2.7	3.0	3.1	3.0
13	1.9	1.7	1.8	1.6	1.7	2.0	2.0	2.4	2.7	2.8	3.0	3.3
14	1.9	2.1	2.2	1.6	1.6	2.1	2.1	2.4	2.6	2.9	3.0	3.1
15	1.7	2.3	2.0	2.2	2.2	2.1	2.1	2.3	2.5	2.8	3.1	3.0
16	2.1	1.7	1.6	1.8	1.9	2.1	2.2	2.2	2.5	2.7	3.0	3.3
17	1.9	1.8	2.8	2.2	1.8	2.0	2.1	2.2	3.0	2.8	3.2	3.3
18	2.0	2.6	1.8	2.0	1.6	2.2	2.2	2.4	2.8	3.0	3.0	3.4
19	1.7	1.7	1.8	1.7	2.0	2.2	1.8	2.3	2.6	3.2	3.0	3.1
20	1.5	C	1.3	1.6	1.8	2.5	2.0	2.1	2.6	C	3.0	3.3
21	1.5	1.6	1.5	1.7	1.7	2.0	2.0	2.3	2.6	2.8	3.0	3.0
22	1.7	1.7	1.5	1.6	1.7	2.4	1.9	2.4	2.7	3.0	3.0	3.1
23	2.0	2.0	1.8	1.7	1.9	2.1	1.8	2.2	2.5	2.7	3.0	3.2
24	2.0	2.2	1.9	2.0	1.7	2.1	1.9	2.4	2.6	2.9	3.0	3.2
25	1.9	1.9	1.8	1.9	1.9	2.4	1.8	2.2	C	C	C	C
26	1.7	1.9	1.7	1.6	1.8	2.1	2.2	2.6	2.7	2.8	3.1	3.4
27	1.8	1.8	1.8	1.6	2.2	2.8	2.2	2.5	2.8	3.0	3.4	3.2
28	2.0	2.1	1.9	2.0	1.8	2.2	2.2	2.5	2.9	2.9	3.0	3.2
29	2.2	2.2	1.9	1.9	1.8	2.2	2.2	2.3	2.6	3.0	C	C
30	1.6	1.5	1.7	1.6	1.7	2.2	2.2	2.4	3.0	2.8	3.0	3.2
31	1.6	1.6	1.6	1.5	2.0	2.0	1.7	2.1	2.6	3.0	3.0	3.0
Count	31	30	31	31	31	31	31	31	30	29	28	29
Median	1.8	1.9	1.8	1.7	1.8	2.1	2.1	2.4	2.7	3.0	3.1	3.2
Mean	1.8	1.9	1.8	1.8	1.8	2.2	2.1	2.3	2.8	3.0	3.2	3.3

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : May 1958

TABLE 50—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
3.4	4.0	3.0	3.2	2.3	1.7	2.0	1.3	1.7	1.6	1.4	1.7	1
3.6	3.4	3.0	4.1	3.6	C	1.6	1.6	2.0	1.9	1.5	2.0	2
3.4	3.5	3.0	3.0	2.2	2.4	1.8	1.5	1.9	1.7	1.7	2.1	3
3.6	3.4	3.1	3.1	2.6	2.4	2.0	C	1.9	2.0	1.9	1.9	4
3.4	3.2	4.8	3.4	2.6	2.6	1.6	2.0	2.0	1.6	1.7	1.8	5
3.2	3.2	3.0	2.7	2.2	2.1	1.7	1.9	1.9	2.0	1.9	1.8	6
3.5	3.0	3.2	3.0	2.4	2.6	1.5	2.1	2.2	2.0	2.7	2.4	7
3.8	3.3	3.1	3.0	2.4	2.5	1.7	1.3	2.3	1.7	1.9	2.0	8
3.6	3.2	3.0	2.8	2.3	2.3	1.5	1.6	1.8	2.0	2.2	1.5	9
3.4	3.2	2.9	2.8	2.2	2.6	1.5	UI.7s	UI.7s	2.0	1.7	1.6	10
3.0	3.0	2.8	2.7	U2.5s	2.4	UI.4s	1.5	1.9	1.7	1.6	1.8	11
3.2	2.9	2.6	2.7	2.3	1.9	1.4	1.6	1.9	1.5	U2.1s	1.6	12
3.2	3.0	2.8	2.6	2.2	1.9	1.4	UI.5s	1.8	1.8	2.0	2.1	13
3.2	3.0	U2.6s	U2.7s	2.5	U2.5s	1.8	1.5	1.4	1.7	1.6	1.8	14
3.0	2.8	2.6	2.7	3.0	2.8	2.2	2.0	1.4	1.7	2.6	2.0	15
3.2	3.0	2.7	2.3	2.0	2.2	1.4	1.6	1.5	1.9	1.7	1.7	16
3.3	3.1	2.8	2.8	2.3	2.5	1.5	2.0	2.0	2.2	2.6	2.0	17
3.2	3.0	2.8	2.6	2.3	2.4	1.5	2.0	1.6	1.8	2.0	1.7	18
3.4	3.2	3.0	2.8	2.4	2.5	1.5	2.0	2.4	2.0	1.6	1.6	19
3.4	3.0	2.8	2.8	2.4	2.5	1.5	2.0	2.0	2.0	1.8	1.4	20
3.1	3.0	U2.8s	2.6	2.3	2.4	1.5	1.5	1.8	1.9	1.8	1.8	21
3.2	3.0	C	2.8	2.6	2.4	1.7	2.5	S	1.7	1.6	2.2	22
3.3	2.8	2.6	2.8	2.4	1.9	1.8	2.0	2.0	2.0	2.0	1.9	23
3.2	3.3	2.9	2.6	2.4	2.0	1.7	1.7	1.8	1.8	1.7	1.8	24
C	C	3.0	2.6	2.3	2.4	C	1.8	2.2	1.9	2.0	1.8	25
3.2	3.6	2.8	3.0	2.4	1.9	1.7	1.8	1.9	1.9	1.7	1.6	26
3.2	3.0	U3.2s	2.7	2.4	1.7	2.0	2.2	2.2	1.8	2.4	2.1	27
3.2	3.1	2.8	2.7	2.3	2.2	1.7	2.0	1.8	1.6	1.7	2.8	28
C	C	C	3.8	2.4	2.6	1.8	1.9	2.2	2.2	1.9	1.8	29
3.2	3.0	2.8	2.5	2.1	1.8	1.9	1.9	2.0	1.7	1.4	1.6	30
3.2	3.1	3.0	3.0	2.4	2.1	2.0	1.8	2.4	2.2	2.2	2.2	31
29	29	29	31	31	30	30	30	30	31	31	31	Count
3.2	3.1	2.9	2.8	2.4	2.4	1.7	1.8	1.9	1.9	1.8	1.8	Median
3.3	3.1	2.9	2.9	2.4	2.3	1.7	1.8	1.9	1.9	1.9	1.9	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F₂

Unit : Km

Month : May 1958

TABLE 51

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5												
6									L	L _H	C	C
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10												
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15												
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20												
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25												
26								L	L	L	L	L
27								L _H	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30												
31								L	L	L	L	L
Count							
Median							
Mean							

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F₂

Unit : Km

Month : May 1958

TABLE 51
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L	L							3
C	L	L	L	L								4
L												5
L	L	L	L	L	L							6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	L							9
L	L	L	L	L	L							10
L	L	L	L	L	L							11
L	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L	L	L	L	L	L							30
L	L	L	L	L	L							31
..	..	..	..	..	..							Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F₂

Unit : Km

Month : May 1958

TABLE 50—contd.

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							L	L	L	L	L	L
2							L	L	L	L	L	L _{LH}
3								L	L	L	L	L
4							L	L	L	L	L	L
5											C	L
6								L	L	L	L	L
7								L	L _{LH}	L _{LH}	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10							L	L	L	L	L	L
11								L	L	L	L	L
12							L	L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15							L	L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22							L	L	L	L	L	L
23							L	L	L	L	L	L
24							L	L	L	L	L	L
25							L	L	L	L	L	L
26							L _{LH}	L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Count						
Median						
Mean						

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2

Unit : Km

Month : May 1958

TABLE 51—*contd.*

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L L L L L	L L L L L	L L L L L	L L L L L	L L								1
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								2
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								3
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								4
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								5
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								6
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								7
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								8
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								9
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								10
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								11
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								12
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								13
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								14
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								15
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								16
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								17
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								18
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								19
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								20
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								21
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								22
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								23
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								24
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								25
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L							26
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								27
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								28
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								29
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								30
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								31
..	..	..	..	..	..							Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km

Month : May 1958

TABLE 52
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	275	275	295	240	230	225	260	240	240	225	220	215H
2	300	300	270	240	220	220	265	240	220H	230	220	225
3	300	280	260	265	240	215	260	U255A	240	225	215	220H
4	300	275	260	240	220	205	260	240	230	B	215	220H
5	U345F	300F	260	225	230	230	270	245	230	225	220H	215
6	U325F	U300F	300F	260F	240F	220	270	245	230	235	C	C
7	340	315	300	285	240	220	265	240	225	220	210H	200H
8	300	295	260	250	235	230	260	240	225	220	210	B
9	310	280	240	215	220	260	260	240	235	220	205H	210M
10	300	U265F	265	245	215	225F	260	240	230	225	210	205H
11	230	270	300	290	220	230	270	240	235	230	220	210
12	270	280	285	265	230	220	265	240	230	220	215H	C
13	U310F	250	260	250	220	230	260	240	230	220	210	205
14	290	300	U350F	300	240	235	260	240	235	220	220	220
15	300	290	300	300	300	240	240	240	220	215	210	200
16	265	270	300	280	220	220	245	235	225H	220	210	215H
17	340	320	300	270	235	220	250	230	220	220	200H	210
18	310	330	300	280	230	220	260	240	220	220	215	200
19	U380F	405	420F	380F	275	220	250	240	220	220	U220B	200
20	260	240	240	220	215	220	250	240	220	C	220	200H
21	300	300	300	260	210	210	250	230	220	220	215	200H
22	340	345	F	275	245	220	250	225	220	205H	200H	205
23	320	280	245	235	230	230	260	235	220	215	205	200H
24	315	300	270	270	240	220	250	235	220	205H	200H	200H
25	300	300	280	240	225	225	260	230	220	C	C	C
26	285	270	260	225	225	220	235	235	220H	220	210	210
27	380	400	375	270	240	240	260	240	225	210	200H	200
28	260	300	310	300	240	225	270	240	220	215	210	205
29	320	300	270	260	240	230	260	235	225	210	C	C
30	325	340	330	280	240	240	260	240	230	220	210	205
31	360	350	330	300	260	235	265	245	230	220	210	240
Count	31	31	30	31	31	31	31	31	31	28	28	26
Median	300	300	290	265	230	225	260	240	225	220	210	205
Mean	310	300	290	265	235	225	260	240	225	220	210	210

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km

Month : May 1958

TABLE 52

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
205	210	220	210	245	270H	320	430	500	440F	370	335	1
215	215	225	230	245	C	305	425	F	F	360F	330	2
205H	205H	225	230	240	260H	300H	470H	F	F	380	300	3
C	205H	205H	A	A	280	310H	470H	C	400	390	400	4
220	210	220	230	245	265H	315	C	F	F	F	U365F	5
215	210H	205H	225H	230	260	315	415F	F	F	U360F	370	6
215H	215H	220	220	240	260	300	400	440	420	360	330	7
210H	220H	220H	220H	235	260	310	445	480	500	340	340	8
205H	200H	215H	220	240	260	300	C	F	370	350	315	9
200H	205H	220	230	240	265	300	420F	F	410F	325	230	10
220	205H	205	215	240	255	310	U430F	F	F	290	260	11
210	200	200	220	240	255	300	F	F	F	350	325	12
200	200	205	230H	230H	255	295	410	U395F	365	340	310	13
215	210	215	225	240	250	300	410	450	400	340	305	14
200	205	215H	220	225	250H	290	400	U415F	385	340	295	15
205H	205	200	215	220H	260	300	U390F	F	U390F	U345F	305	16
200	200	200	210	220	240	280	360	U400F	380	U360F	340	17
205	200	200H	220H	230	240	280	380	U350F	U380F	360	360	18
200	200	200	220	225	240	280	380F	F	U370F	340	300	19
210	210H	200	205	210	240	280	340	U400F	410F	U360F	320	20
200H	200H	200	220	220	240	270	380	U480F	U460F	U470F	U385F	21
205H	195H	200	200	225	245	280	365	420	390	360	350	22
205	210	205	215	C	255	290	395	F	F	F	U380F	23
195H	200H	200H	215	240	250	290	400	U425F	U400F	360	325	24
C	C	C	205H	220	235	295	C	F	F	380	320	25
200H	215H	205H	230	A	U245A	U300A	380	420	F	380	280	26
210	200	220	A	240	260	285	360	F	380	330	300	27
205	210	210	220	240	245	295	400	440	440	410	360	28
C	C	C	C	240	265	300	340	310	285	300	275	29
210	220	210	240	260	270	300	440	F	F	U460F	410	30
215	220	220	A	240	260	295	380	F	340	310	240	31
28	29	29	27	28	30	31	27	15	21	29	31	Count
205	205	205	220	240	255	300	400	420	390	360	325	Median
205	205	210	220	235	255	295	400	420	395	360	330	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F
Unit : Km
Month : May 1958

TABLE 5a—contd.
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	265	280	265	220	220	245	270	240	230	215	210	205H
2	300	300	260	230	220	240	250	240	230H	225	210H	215
3	285	260	270	260	230	235	265	245	230H	220	220	210H
4	290	260	240	230	220	240	250	235	230	B	210	215
5	U360F	300F	230	235	235	270	250	240	230	B	215	215
6	U280F	U315F	U305F	U240F	225	240	275	240	225	220	C	220
7	320	A	300	260	230	240	265	230	220H	200H	220	220H
8	300	285	260	240	235	260	245H	240	225	220	200	235
9	280	265	220	210	255	280	250	240	225	215	210H	200H
10	280F	255	255	230	215	255F	250	240	220	210H	205H	205H
11	240	280	305	250	225	260	250	240	230	220	220	200
12	280	285	280	245	220	240	250	230	220	220H	210H	210
13	280	240	265	235	220	260	250	235	225	220	210	200
14	280	U345F	U305F	270	240	260	250	240	230	220	220	215
15	290	295	300	300	280	230	245	235	215	215	215	200
16	260	290	295	240	200	240	245	235	220	220	200	215H
17	340	320	280	240	220	240	240	220H	220	220	210H	200
18	290	300	285	260	220	240	240	235	220	210	200	200
19	400F	420	420F	300	240	240	240	230	220	215	210	200
20	240	240	240	220	220	240	A	230	220	C	210	215
21	300	300	280	225	205	260	240	230	220	215	200	200H
22	335	360	330	265	225	240	240	225	215	205	200H	205H
23	300	255	240	225	225	255	240	220	220	210	200	205
24	300	300	275	260	225	245	240	225	215	205	200	200H
25	305	300	260	230	230	260	240	225	C	C	C	C
26	280	260	245	225	220	240	240	220	215	210	210	205H
27	385	395	320	245	240	300	250	235	220	210H	200	210
28	280	310	310	265	230	255	250	230	220	210	210	200
29	310	280	260	260	230	255	240	220	220	210	C	C
30	340	355	305	260	240	260	250	235	230	215	210	200
31	360	355	320	285	245	250	260	235	230	220	210	205
Count	31	30	31	31	31	31	30	31	30	27	28	29
Median	290	300	280	240	225	245	250	235	220	215	210	205
Mean	300	300	280	245	230	250	250	235	225	215	210	205

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km

Month : May 1958

TABLE 52—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2'N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
205H	215	215	235	250H	280	370	480	U500F	415F	360	320	1
220	220	220	245	250H	C	360	F	F	380	340F	310	2
215	215	220	240	245	265H	360H	F	F	F	330	305	3
205H	205H	A	A	A	300H	325H	C	F	400	410	U360F	4
215	210	240	245	250H	290	380	F	F	F	F	U325F	5
210	205H	220H	230	245	280	365	F	U470F	F	370	360	6
205H	210	220	235	240	280	350	440	440	400	340	305	7
215H	220H	220	230	250	280	370	500	480	380	360	335	8
200H	200H	215	240	240	280	360	480	340	440	300	310	9
200H	200	220	235	245	280	345	F	F	370	275	225	10
210H	200H	215	235	240	280	360	F	F	U285F	260	265	11
210	200	210H	215	250	270	350	U490F	F	U380F	335	335	12
200	205	220	225H	240	270	340	U405F	380	345	320	310	13
215	210	225	235	250	275	345	450	420	380	320	300	14
200	210	220	220	240	275	340	425	U400A	355	320	280	15
200	200	205	215H	245	280	330	U400F	F	U360F	320	320	16
200	200	205	220	240	260	310	U380F	U360F	370	U350F	340F	17
200	200H	210H	220	240	260	320	340	U400F	380	360	U380F	18
200	200	210	215	240	255	305	U380F	U300F	U360F	320	260	19
210	200H	200	205	240	260	305	400	U420F	U360F	340	300	20
200H	205	200	220	230H	260	310	U440F	U470F	U460F	U400F	370	21
200H	200	C	220	240	260	320	400	F	U380F	U380F	340	22
200H	210	205M	215	245	270	320	F	F	F	F	345	23
200H	200H	205	225	240	280	330	435	U420F	380	345	300	24
C	C	205	210	230	260	C	U360F	F	380	340	300	25
205H	215H	A	215	U240A	A	320	U425F	F	420	F	380	26
210	215	A	A	240	265	305	F	385	360	310	275	27
200	205	220	U250A	240	260	340	420	465	420	380	330	28
C	C	C	220	255	280	330	340	300	300	275	280	29
225	220	230	U255A	260	280	340	F	F	F	410	400	30
210	220	220	A	240	270	320	400	U380F	340	280	220	31
29	29	26	28	30	29	30	21	18	26	28	31	Count
205	205	220	225	240	275	340	420	U410	380	340	310	Median
205	205	215	230	245	275	340	420	U405	375	340	315	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : May 1958

TABLE 53
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								115	A	A	A	A
2								110	A	A	A	A
3								115	105	A	A	A
4								105	A	B	A	A
5							130	120	A	A	B	A
6								115	A	B	C	C
7									A	A	A	A
8							125	110	A	A	A	A
9								120	105	A	A	A
10								110	A	A	A	A
11							145	A	A	A	A	A
12							130	A	A	A	A	C
13								110	105	A	A	A
14								115	110	A	A	A
15							140	115	105	100	100	A
16								110	A	A	A	A
17							120	110	A	A	A	A
18								105	A	B	A	A
19								110	A	A	B	A
20								A	A	C	A	A
21							120	100	A	A	A	A
22							110H	A	110	A	A	A
23							120	110	105	A	A	A
24							115H	105	105	A	A	A
25							120	110	105	C	C	C
26							120	110	115	105	A	A
27								A	A	A	A	A
28								115	110	A	A	A
29								110	110	110	C	C
30							125	110	110	110	110	A
31								110	110	110	110	B
Count							13	25	14	5	3	..
Median							120	110	110	110	..	..
Mean							125	110	110	105	..	..

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : May 1958

TABLE 53
Ionospheric Data
75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A								1
A	A	A	A	110								2
A	A	A	105	105	100							3
C	A	105	A	A	A							4
A	A	105	105	110	110							5
A	105	A	A	105								6
A	A	105	A	105								7
A	A	105	105	110	115							8
A	A	A	A	A	115							9
A	A	B	A	105	A							10
A	A	A	A	A	A							11
A	A	A	A	A	A							12
A	A	A	A	A	115							13
A	A	A	A	A	A							14
A	A	A	A	A	A							15
A	A	A	A	A	A							16
A	110	A	A	A	110							17
A	A	A	A	110	115							18
A	A	A	105	105	115							19
A	A	A	A	110	115							20
A	A	A	A	A	110							21
A	A	A	110	115	120							22
A	A	A	A	C	A							23
A	A	A	105	105	110	140						24
C	C	C	105	110	105							25
A	B	A	A	A	A	A						26
B	A	110	110	110								27
A	A	A	110	110	110							28
C	C	C	C	C	115							29
A	A	A	A	A	A							30
A	A	110	A	115	120							31
..	2	6	9	17	15	1						Count
..	..	105	105	110	110	..						Median
..	..	105	105	110	110	..						Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E
Unit : Km
Month : May 1958

TABLE 53—contd.
Ionospheric Data
75.0°E Mean Time

Latitude : 10.2° N
Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							115H	A	A	A	A	A
2							120	A	A	A	A	A
3							115H	105	A	A	A	A
4							120	A	B	A	A	A
5							120	A	A	B	A	A
6							115H	115	110	A	C	A
7							A	A	A	A	A	A
8							110	110	A	A	A	A
9							120	105	105	A	A	A
10							110H	A	105	A	A	A
11							120H	A	A	A	A	A
12							120	A	A	A	A	A
13							120H	110	A	A	A	A
14							120	110	A	110	A	A
15							120H	110H	100	100	A	A
16							120H	A	A	A	A	A
17							110	A	A	A	A	A
18							120	100	105	A	A	A
19							110	105	A	A	A	A
20							A	A	A	C	A	A
21							110	A	A	A	A	A
22							110H	110	105	A	A	A
23							110	105	A	A	A	A
24							115	105	A	A	A	A
25							115	105	C	C	C	C
26							120	110	105	A	A	A
27							105	A	A	A	A	A
28							120	115	110	A	A	A
29							115	110	110	A	C	C
30							120	110	110	110	A	A
31							110	110	110	A	110	A
Count							29	18	11	3	1	..
Median							115	110	105	..	..	..
Mean							115	110	105	..	..	..

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : May 1958

TABLE 53—contd.

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	B	A	A	A								1
A	A	A	B									2
A	A	105	115	105								3
A	A	A	A	A								4
	A	B	A	105								5
A	A	A	110	105								6
A	A	A	105	105								7
A	A	A	105	110								8
A	A	A	A	110								9
A	110	A	110	110								10
A	A	A	A	A	A							11
A	A	A	A	A	A							12
A	A	A	A	A	130							13
A	A	A	A	A								14
A	A	A	A	A								15
A	A	A	A	A	A							16
A	105	A	A	105								17
A	A	A	A	110								18
A	A	A	110	110								19
A	A	A	105	110								20
A	A	A	A	A								21
A	A	C	110	120								22
A	A	A	A	A	A							23
A	A	A	105	110	115							24
C	C	A	110	110	S							25
A	A	A	105	A	A							26
A	A	A	110	110								27
A	A	110	110	110								28
C	C	C	B	120								29
A	A	A	110	110								30
A	A	110	120	110								31
..	2	3	15	19	2							Count
..	..	..	110	110	..							Median
..	..	..	110	110	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : May 1958

TABLE 54

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								G	100	100	100	100
2							120	135	100	100	100	100
3							120	125	100	100	100	100
4		105						100	100	100	100	100
5	110	135					G	G	100	100	100	100
6							110	100	100	100	C	C
7							120	100	100	100	100	100
8							G	G	100	100	100	100
9								G	100	100	100	100
10								G	100	100	100	100
11							G	100	100	100	100	100
12			110				G	100	100	100	100	C
13	115							100	100	100	100	100
14								G	G	100	100	100
15							G	G	100	100	100	100
16	110	120						100	100	100	100	100
17	110						G	100	100	100	100	100
18							120	100	100	100	100	100
19								100	100	100	100	100
20								100	100	C	100	100
21		110		105			110	G	100	100	100	100
22							150	105	100	100	100	100
23							G	100	100	100	100	100
24	105						160	100	100	100	100	100
25							G	100	100	C	C	C
26		100					G	100	120	100	100	100
27	100		105			C	90	100	100	95	95	95
28								G	100	100	100	100
29	100							G	100	100	C	C
30							G	G	G	G	100	100
31	120	120	105	140				140	100	100	100	100
Count	8	6	3	2	..	..	9	20	29	28	28	27
Median	110	115	..	..	..	..	120	100	100	100	100	100
Mean	110	115	..	..	..	..	120	105	100	100	100	100

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es

TABLE 54

Latitude : 10° 2' N

Unit : Km

Ionospheric Data

Longitude : 77° 5' E

Month : May 1958

75° 0' E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100	100					115	110	1
100	100	100	100	100	C							2
100	100	100	100	115	100							3
C	100	100	105	105	100			C				4
100	100	100	100	100	100		C			120		5
100	100	100	100	100	105							6
100	100	100	100	100	100				120	100		7
100	100	100	100	100	100					120		8
100	100	100	100	100	100					120		9
100	100	100	100	100	100							10
100	100	100	100	100	100					115		11
100	100	100	100	100	100					120		12
100	100	100	100	100	100							13
100	100	100	100	100	100							14
100	100	100	100	100	100			135	120			15
100	100	100	100	100	100						115	16
100	100	100	100	100	100					110		17
100	100	100	100	G	100						120	18
100	100	100	100	100	100							19
100	100	100	100	100	100							20
100	100	100	100	100	100						120	21
100	100	100	100	G	G					120		22
100	100	100	100	C	100							23
100	100	100	100	100	100	160						24
C	C	C	100	G	105		C					25
100	100	100	100	100	100	100			110			26
100	100	100	100	100	100	115			120	120		27
100	100	100	100	100	105				120	120		28
C	C	C	C	G								29
100	100	100	100	100	100	140				120	120	30
100	100	100	100	100	G							31
28	29	29	30	26	26	5	..	1	5	12	5	Count
100	100	100	100	100	100	115	..	..	120	120	120	Median
100	100	100	100	100	100	125	..	..	120	115	115	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : May 1958

TABLE 54—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							G	100	100	100	100	100
2							100	100	100	100	100	100
3							120	100	100	100	100	100
4							G	100	100	100	100	100
5	105						G	100	100	100	100	100
6							140	G	100	100	C	100
7		100					110	100	100	100	100	100
8							G	100	100	100	100	100
9							G	G	100	100	100	100
10							G	100	100	100	100	100
11			110	110			110	100	100	100	100	100
12	115		110				105	100	100	100	100	100
13	115						G	100	100	100	100	100
14							G	G	100	100	100	100
15							120	G	100	100	100	100
16	115	115					G	100	100	100	100	100
17							G	100	100	100	100	100
18							140	G	100	100	100	100
19			110				G	100	100	100	100	100
20							100	100	100	C	100	100
21	110		105				G	100	100	100	100	100
22							G	G	100	100	100	100
23							100	100	100	100	100	100
24							100	100	100	100	100	100
25		110					105	100	C	C	C	C
26		100					G	G	100	100	100	100
27		110					100	100	100	90	100	100
28							G	100	100	100	100	100
29							G	100	100	100	C	C
30							G	G	100	100	100	100
31	120	100	100				130	110	100	100	100	100
Count	6	6	5	1	..	..	14	23	30	29	28	29
Median	115	105	110	..	..	..	110	100	100	100	100	100
Mean	115	105	105	..	..	..	115	100	100	100	100	100

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es

TABLE 54—contd.

Unit : Km

Ionospheric Data

Month : May 1958

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	100	100				110	110	105	1
100	100	100	100	100	G							2
100	100	100	120	100			C					3
100	100	105	105	100	170							4
100	100	100	100	100								5
100	100	100	100	100	105							6
100	100	100	100	100					120	120		7
100	100	100	100	100					120	120		8
100	100	100	100	100								9
100	100	100	100	100								10
100	100	100	100	100								11
100	100	100	100	100	110				120			12
100	100	100	100	100	G							13
100	100	100	100	100								14
100	100	100	100	100				120			115	15
100	100	100	100	100	100			115		115	110	16
100	100	100	100	100	100							17
100	100	100	100	G								18
100	100	100	100	100								19
100	100	100	100	100	140						110	20
100	100	100	100	100								21
100	100	C	G	G						135		22
100	100	100	100	100	100				120		105	23
100	100	100	100	100	140							24
C	C	100	G	100	S	C						25
100	100	100	G	100	100	100			110	110	100	26
100	100	120	110	100	110	S			110			27
100	100	100	100	105					115	120		28
C	C	C	G	100								29
100	100	100	100	100	100				120	115	115	30
100	100	100	120	100	120							31
29	29	29	27	27	13	1	..	2	9	8	7	Count
100	100	100	100	100	105	..	..	..	120	120	110	Median
100	100	100	100	100	115	..	..	..	115	120	110	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

TABLE 55

Latitude : 10°2' N

Unit : —

Ionospheric Data

Longitude : 77°5' E

Month : May 1958

75°0'E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2.55	2.50	2.50	2.75	2.90	3.00	2.90	2.70	2.50	2.20	2.05	2.05
2	F	U2.40S	2.55	2.80	2.95	U3.15S	2.95	2.80	2.50	2.15	2.05	2.00
3	U2.35S	U2.50F	U2.65F	F	2.75	3.15	2.85	2.70	2.40	U2.00R	2.10	2.05
4	F	F	U2.75F	2.90F	3.00	3.10	3.00	2.80	2.50	2.05	2.10	2.10
5	F	F	F	F	2.95	3.10	2.90	2.70	2.45	2.20	2.10	1.95
6	F	F	F	F	F	F	U2.90F	2.75F	2.50	2.15	C	C
7	F	U2.40F	F	F	F	U3.00F	2.90	2.80	2.50	2.15	2.05	2.05
8	U2.50F	2.60	2.65F	2.75	F	2.90F	2.85	2.80F	2.55	2.25	2.05	2.05
9	U2.35F	2.55	2.85	3.05	3.00	2.80	2.85	2.85	2.65	2.40	2.20	2.05
10	U2.45F	2.55	2.75	2.95	F	U3.15F	3.00F	2.95	2.80	2.50	2.20	1.95
11	U2.80S	2.70	2.70	2.75	U2.95S	U3.10S	U2.85S	2.80	2.60	J2.35S	2.15	2.05
12	FS	FS	U2.60F	F	U2.95F	3.15	2.90	2.50	2.30	2.30	2.20	C
13	FS	U2.70F	FS	FS	2.95	3.15	2.90	2.80	2.55	2.20	2.15	2.20
14	FS	2.55	F	F	U2.85S	U2.90S	2.90	2.75	2.65	2.40	U2.15R	2.00
15	U2.35S	U2.50S	U2.45F	U2.40S	2.60	U3.00S	3.15	2.90	2.65	2.40	1.90H	2.00
16	2.80	U2.70S	U2.60S	2.75	3.10	3.30	U3.10S	3.00	2.75	2.45	2.20	2.10
17	U2.60F	F	F	F	F	J3.15S	3.20	3.00	2.65	2.30	2.25	2.30
18	F	U2.60F	U2.75F	F	U2.85F	3.20	3.15	3.00	2.75	J2.55R	J2.20R	2.25
19	F	F	F	F	F	U3.10F	3.05	2.90	2.60	2.25	2.20	2.20
20	U2.95S	2.95	3.00	3.10	3.20	3.20	U3.10S	2.90	2.55	C	2.25	2.15
21	2.65	U2.70S	2.75	2.95	3.20	3.40	3.20	3.00	2.70	2.35	2.20	2.10
22	F	F	F	F	U3.00F	3.05	3.05	2.95	2.60	2.30	2.10	2.15
23	2.60F	2.15	F	U3.05F	J3.00R	3.00	2.90	2.70	2.45	2.25	2.20	2.15
24	F	F	F	U3.00F	U3.00F	3.15	3.05	2.85	2.60	2.25H	2.10	2.10
25	F	F	F	F	3.10	3.05	3.00	2.75	2.45	C	C	C
26	F	2.75	2.75	3.05	3.00	3.00	3.00	2.80	2.55	2.40	2.10	2.00
27	2.20	F	2.35	2.65	2.90	2.80	2.50	U2.55RH	2.40	2.25	2.15	2.10
28	2.70	U2.50S	U2.60S	U2.60S	2.80	3.15	2.90	2.80	2.60	2.25	2.10	2.10
29	F	2.50	2.75	2.80	2.85	3.05	3.10	3.00	2.55	2.30	C	C
30	2.70	U2.60S	2.50	U2.60S	2.70	2.95	3.00	2.90	2.65	2.50	2.25	2.05
31	F	F	F	F	2.70	3.00	3.00	2.80	2.55	2.30	2.20	2.15
Count	15	20	19	18	25	30	31	31	31	29	28	27
Median	U2.60	U2.60	2.65	2.80	2.95	3.10	3.00	2.80	2.55	2.30	2.15	2.10
Mean	U2.55	U2.60	2.65	2.85	2.95	3.05	2.95	2.80	2.55	2.30	2.15	2.10

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

TABLE 55

Latitude : 10° 2' N

Unit : —

Ionospheric Data

Longitude : 77° 5' E

Month : May 1958

75° 0' E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
2.05	2.00	2.05	2.05	2.05	2.10	2.05	2.00	U2.00S	2.00F	U2.05F	F	1
2.00	2.00	2.05	2.05	2.10	C	2.05	U2.00R	F	2.05F	U2.15F	2.25	2
2.05	2.00	2.00	2.10	2.15	2.20	2.05	1.95	F	F	F	F	3
C	2.00	2.05	2.15	2.20	2.15	2.05	2.00	C	F	F	F	4
2.00	1.95	1.95	2.00	2.05	2.05	2.00	C	F	F	F	F	5
2.05	2.00	1.95	2.00	2.05	2.05	2.00	1.90F	F	F	F	F	6
2.05	2.00	2.00	2.00	2.05	2.10	2.15	2.00	2.05	2.10	2.25	F	7
2.00	2.00	2.00	2.05	2.05	2.05	2.05	1.95	U1.90F	F	U2.15F	F	8
2.00	2.05	2.05	2.00	2.00	U2.05S	U2.00S	C	F	U2.00F	F	U2.35F	9
2.05	2.05	2.10	2.10	2.10	2.05	U2.05S	1.95F	U2.00S	2.10	2.35	2.55	10
2.05	2.00	2.05	U2.10S	2.20	2.20	U2.05S	1.95	F	F	U2.20S	2.50	11
2.10	2.10	2.15	2.10	2.15	U2.15S	U2.05S	U1.90F	U1.90F	F	U2.35S	U2.45F	12
2.15	2.10	2.10	2.15	2.15	2.15	2.05	2.00	U2.10S	2.25	J2.45S	2.55	13
2.15	2.15	2.15	U2.20S	2.15	2.15	2.05	U2.10R	1.85	2.05	FS	2.35	14
2.15	2.10	J2.15R	2.10	2.15	J2.20S	2.35	2.20	U2.10S	2.20	2.35	U2.65S	15
2.20	2.20	2.20	2.20	2.35	2.45	2.35	J2.10R	F	F	F	FS	16
2.25	2.10	2.15	2.10	U2.15S	2.20	U2.30S	2.20	2.15	U2.15F	F	F	17
2.20	2.15	2.20	2.15	2.25	U2.35S	2.35	U2.20S	F	2.25	F	F	18
2.20	2.20	2.10	2.10	U2.20S	U2.30S	2.30	U2.25H	F	2.30	2.45	U2.80S	19
2.15	2.15	2.15	2.20	2.25	U2.25S	J2.30S	U2.20S	2.20	F	U2.40F	J2.65F	20
2.10	2.10	2.15	2.15	U2.20S	U2.25S	U2.30S	2.15	U2.10F	F	F	F	21
2.15	2.05	2.10	2.10	2.20	2.30	2.30	U2.25S	2.20	2.30	2.35F	2.50	22
2.10	2.10	2.10	2.15	C	2.20	J2.25S	2.10	F	F	F	F	23
2.10	2.10	2.10	2.05	2.15	U2.25S	U2.25S	2.05	U2.05S	U2.15F	U2.20F	U2.35F	24
C	C	C	2.10	2.20	2.20	J2.15S	C	F	F	2.30	F	25
2.05	2.05	2.10	2.10	2.20	J2.30S	U2.25S	2.15	2.15	U2.10S	U2.25F	F	26
2.05	2.10	2.10	S	2.20	2.20	U2.10S	F	2.15	2.25	2.40	2.60	27
2.20	2.05	2.10	2.10	U2.25S	2.20	2.15	2.05	U2.00S	F	F	F	28
C	C	C	C	U2.25R	2.35	2.30	2.25	2.35	2.55	2.65	2.80	29
2.05	2.05	2.10	2.05	2.15	U2.20S	U2.15S	F	F	F	F	F	30
2.05	2.05	2.10	2.15	2.30	2.30	2.30	2.10	F	2.25	2.50	2.95	31
28	29	29	29	30	30	31	26	17	17	18	15	Count
2.10	2.05	2.10	2.10	2.15	2.20	2.15	2.10	U2.10	2.15	U2.35	2.55	Median
2.10	2.05	2.10	2.10	2.15	2.20	2.15	2.10	U2.05	2.20	U2.30	2.55	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

TABLE 55--contd.

Latitude : 10° 2' N

Unit : —

Ionospheric Data

Longitude : 77° 5' E

Month : May 1958

75° 0' E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.55	2.50	2.55	2.85	U3.10S	2.85	2.85	2.60	2.40	2.05	2.05	2.00
2	U2.40S	U2.45S	2.65	2.90	3.05	3.00	2.90	2.65	2.35	2.00	2.05	2.05
3	U2.35S	U2.45F	F	2.70	3.05	3.00	2.85	2.60	2.20	2.15	2.10	2.05
4	F	F	F	2.95	3.10	2.90	2.90	2.65	2.25	2.10	2.10	2.10
5	F	U2.45F	F	F	3.00F	2.75	2.85	2.60	2.25	2.15	2.00	2.00
6	F	F	F	F	F	U3.00F	2.90	2.60	2.35	2.00	C	2.00
7	2.40F	F	F	F	U2.90F	2.95	2.90	2.70	2.35	1.95H	2.10	2.05
8	2.50	2.65F	2.60	2.85F	3.00F	2.90F	2.90F	2.65	2.45	2.05	2.10	2.05
9	2.50	2.65	2.95	3.00	2.85	2.75	2.90	2.75	2.50	2.30	2.10	2.05
10	2.50F	2.60	2.80	F	U3.05F	3.00F	2.95	2.95	2.65	2.35	2.05	2.00
11	2.75	2.70	2.65	2.85	3.05	U2.95S	U2.85S	2.70	2.45	2.25	2.05	2.10
12	2.60	U2.60F	U2.65F	U2.85F	J3.20S	2.95	2.70	2.40	2.30	2.25	2.20	2.15
13	U2.60F	U2.80F	Fs	Fs	3.15	2.95	2.90	2.70	2.35	2.15	2.15	2.20
14	2.55	F	F	F	U2.95S	2.90	J2.90S	2.70	U2.55S	2.25	2.00	2.10
15	U2.50S	U2.55S	Fs	U2.55S	U2.75S	3.05	U3.05S	2.80	J2.55S	2.15	2.05	2.25
16	U2.85S	U2.70S	U2.65S	2.90	J3.30S	J3.20S	3.05	2.90	2.60	2.30	2.10	2.20
17	F	F	F	F	F	3.05	3.10	2.80	2.45	2.20	2.30	2.30
18	F	U2.70F	U2.80F	F	3.10	3.10	3.10	2.85	J2.70R	U2.30R	2.10	2.20
19	F	F	F	F	F	3.10	3.00	2.75	2.40	2.20	2.20	2.20
20	2.90	2.90	3.05	3.20	3.20	3.20	U3.00S	2.70	2.40	C	2.20	2.15
21	2.70	U2.75S	2.90	J3.10R	3.30	3.00	3.10	U2.85S	2.55	2.20	2.20	2.05
22	F	F	F	F	F	3.05	3.00	2.75	2.45	2.10	2.10	2.15
23	2.70	U2.90F	U3.00F	3.10	2.95	2.95	2.80	2.55	2.35	2.25	2.20	2.15
24	F	F	F	F	3.05	3.15	2.95	2.70	2.40	2.15	2.10	2.15
25	F	F	F	F	3.10	3.10	2.85	2.60	C	C	C	C
26	2.65	2.75	2.85	3.15	3.20	3.10	2.85	2.70	2.50	2.25	2.05	2.00
27	2.30	U2.30F	2.50	2.80	2.90	2.70	2.25H	2.55	2.35	2.20	2.15	2.05
28	2.65	U2.60S	U2.55S	2.80	2.95	2.95	2.90	2.70	U2.45R	2.05	2.10	2.05
29	F	2.65	U2.70F	2.85	2.85	3.00	3.05	2.80	U2.40R	U2.15R	C	C
30	U2.60S	2.50	2.50	2.70	2.80	2.95	2.95	2.80	2.60	2.40	2.10	2.05
31	U2.40F	F	F	2.70	2.95	2.95	2.90	2.70	2.40	U2.20R	2.15	2.15
Count	21	21	17	19	27	31	31	31	30	29	28	29
Median	2.55	2.65	2.65	2.85	3.05	3.00	2.90	2.70	2.40	2.20	2.10	2.10
Mean	2.55	2.65	2.70	2.90	3.05	3.00	2.90	2.70	2.45	2.20	2.10	2.10

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

Unit : —

Month : May 1958

TABLE 55—*contd.*

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2.05	2.00	2.05	2.05	2.05	2.10	2.00	1.95	1.95F	2.05	U2.10F	2.30	1
2.00	2.00	2.05	2.10	2.15	C	U2.00S	1.90F	F	F	U2.20F	U2.25R	2
2.05	2.00	2.05	2.10	2.20	U2.15R	J2.00S	F	F	F	F	F	3
2.00	2.00	2.05	2.20	2.20	2.15	U2.00S	C	F	F	F	F	4
1.95	1.95	2.00	2.00	2.05	2.05	1.95	F	F	F	F	F	5
2.00	2.00	2.00	2.00	2.05	2.00	1.95	U1.90F	U1.90F	F	F	F	6
2.05	2.00	2.00	2.00	2.05	2.15	2.05	2.00V	2.05	2.15	2.35	2.40	7
2.00	2.00	2.00	2.00	2.05	2.05	1.95	U1.90F	U1.90F	U2.10F	U2.20F	F	8
2.00	2.05	2.05	2.05	2.00	U2.05S	U2.00S	F	F	F	F	U2.40F	9
2.05	2.10	2.10	2.10	2.10	2.05	2.00	U1.90F	2.00	2.20	2.50	2.85	10
2.00	2.05	2.05	2.15	2.20	2.15	U2.05S	F	F	F	2.35	FS	11
2.10	2.15	2.15	2.10	U2.15S	2.05	2.00	U1.85F	F	2.15	FS	FS	12
2.15	2.15	2.15	2.15	2.15	2.15	U2.00S	2.00	2.15	2.35	2.45	2.55	13
2.10	2.15	2.20	2.15	2.15	U2.15S	U2.00S	U1.95S	2.05	U2.10S	U2.20S	U2.40S	14
2.15	2.10	2.15	2.10	2.25	2.25	2.20	U2.15S	2.10	2.25	2.50	2.70	15
2.20	2.25	2.25	2.30	2.45	U2.45R	J2.20S	2.00	F	F	F	F	16
2.20	2.10	2.10	U2.15R	2.20	U2.25S	U2.30S	2.10	F	F	F	F	17
2.15	2.15	2.10	2.15	U2.30S	2.30	2.25	U2.15F	F	U2.25F	F	F	18
2.20	2.15	2.15	2.15	U2.25S	U2.35S	2.30	U2.25F	F	2.35	2.55	2.90	19
2.15	2.15	J2.15R	2.20	2.25	U2.30S	J2.25S	2.20	U2.20F	F	F	2.65	20
2.10	2.10	2.15	2.20	U2.20S	U2.30S	2.20	S	U2.05F	F	F	F	21
2.10	2.10	C	2.20	2.25	2.35	2.25	J2.20R	2.25	2.35	F	2.55F	22
2.10	2.10	2.10	2.15	2.15	U2.25S	U2.15S	2.05	F	F	F	F	23
2.10	2.10	2.10	2.10	2.20	2.25	2.10	J2.10F	U2.10S	2.25F	F	F	24
C	C	2.10	2.20	2.20	U2.20S	C	F	F	2.25	F	2.55	25
2.00	2.05	2.00	2.20	2.30	U2.30S	2.25	2.15	2.15	2.15	F	2.35	26
2.05	2.05	2.15	2.20	2.20	U2.15S	2.15	U2.15F	2.15	2.35	2.50	2.65	27
2.15	2.05	2.05	2.20	U2.25S	2.15	2.10	FS	F	F	F	U2.35F	28
C	C	C	2.15	2.25	2.30	2.25	2.30	2.50	2.55	2.80	2.75	29
2.05	2.10	2.05	2.10	2.15	2.20	2.10	F	F	F	F	F	30
2.00	2.05	2.10	U2.25R	2.35	2.35	2.25	2.10	2.15	2.40	U2.80S	3.25	31
29	29	29	31	31	30	30	22	16	17	13	17	Count
2.05	2.10	2.10	2.15	2.20	2.20	2.10	2.10	2.10	2.25	2.45	2.55	Median
2.10	2.10	2.10	2.15	2.20	2.20	2.10	2.05	2.10	2.25	2.40	2.60	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF2

TABLE 56

Latitude : 10°2' N

Unit : Mc

Ionospheric Data

Longitude : 77°5' E

Month : June 1958

75°0'E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	8.2	6.1	U5.6s	4.4	3.7	U4.5 ^{PH}	9.3	11.6	11.7	13.5	14.1	U12.4R
2	F	8.6 ^F	U8.6 ^F	F	F	U7.5 ^F	9.6	10.6 ^H	11.4	11.7	10.7	10.0
3	10.8	11.0 ^F	9.6 ^F	8.8 ^F	7.5 ^F	6.2	8.8	11.3	12.5	12.8	13.0	12.1
4	U9.7 ^F	F	F	F	F	F	8.9 ^F	11.0	12.0	12.4	11.3	11.0
5	8.8	8.8	9.4	U8.8 ^F	F	F	10.2 ^F	12.0	12.9	12.8	12.2	10.6
6	F	F	F	F	F	7.7	9.7	11.3	12.2	C	11.2	11.0
7	F	F	F	U9.3 ^F	8.7	5.5	8.5	11.1	11.4	12.2	12.7	11.9
8	F	F	U6.6 ^F	F	F	F	U9.8 ^s	11.4	12.5	12.8	12.1	10.5
9	F	F	F	F	F	7.3	C	11.3	12.5	11.9	U12.1R	10.0
10	F	F	8.5 ^F	8.6	7.4	6.4	8.1	9.6	11.5	12.8	13.1	12.8
11	Fs	8.3	U8.6 ^{FS}	U8.5 ^{FS}	7.4	U7.3 ^s	9.6	J11.8s	11.7	12.7	13.1	12.9
12	F	Fs	Fs	Fs	8.0	U8.1 ^s	9.2	11.1	11.7	U11.5R	10.7	10.4
13	8.5	U8.2 ^F	F	F	U7.9 ^F	6.6	9.3	11.5	U11.2R	10.8	10.0	10.2
14	F	F	F	F	F	8.0	U9.6 ^s	11.0	11.5	11.4	10.5	10.4
15	F	F	F	U8.6 ^F	7.9	4.8	8.1	10.6	11.4	J10.7R	C	10.0
16	U7.3 ^s	6.6	6.6	6.7	U7.1 ^s	5.0	7.6	J10.0R	10.8	10.9	10.6	11.0
17	F	U7.2 ^F	7.0	6.6	6.8	6.0	8.2	10.1	U11.2R	C	C	9.6
18	F	F	F	U6.2 ^F	5.5	4.8	7.9	10.0	11.2	11.8	C	C
19	F	F	6.4	U6.1 ^s	6.4	5.7	7.6	10.1	11.2	11.4	11.0	10.6
20	F	F	F	F	F	F	U8.8 ^F	10.6	11.8	11.9	12.0	11.6
21	F	F	F	F	F	5.4	8.4	10.9	10.7	10.8	10.7	11.5
22	6.3	U5.1 ^s	4.2	4.4	3.6	3.7 ^H	J7.1 ^s	8.9	10.8	11.9	12.2	12.3
23	F	F	F	F	J6.2 ^F	4.2	8.2	11.0	11.8	12.4 ^H	11.2	11.3
24	F	F	F	F	J8.7 ^F	6.9 ^F	9.0	10.9	11.2	10.9	10.6 ^H	10.5
25	U9.9 ^s	U9.1 ^s	9.0	U9.3 ^s	U8.0 ^R	6.6	8.8	10.7	11.5	12.2	12.1	12.2
26	F	F	F	F	F	6.0	9.0	10.8	12.2	12.3	U12.0R	11.3
27	U8.0 ^F	F	F	F	8.5	7.4	9.0	11.0	11.8	11.7	11.2	10.5
28	F	F	F	8.1	U6.4 ^s	4.4	7.7	10.1	10.0	9.5	9.6	.8
29	F	F	F	F	5.9	U4.6 ^s	8.3	10.4	11.5	12.3	13.5	12.8
30	9.0	8.9	7.9	7.0	5.6	4.3	7.8	11.0	12.4	12.6	12.1	11.1
Count	10	11	13	15	20	26	29	30	30	28	27	29
Median	8.6	8.3	7.9	U8.1	7.2	6.0	8.8	11.0	11.5	11.9	12.0	11.0
Mean	8.6	8.0	7.5	U7.4	6.9	6.0	8.7	10.9	11.6	11.9	11.7	11.1

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : June 1958

TABLE 56
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11.0	11.6	11.6	11.4	11.6	12.3	12.6	11.7	11.0	10.7	10.4	U9.6F	1
10.1	9.7	9.7	10.1	10.1	9.8	U9.6s	9.4	8.7	9.0	U9.8F	10.6	2
11.5	11.0	11.5	11.6	11.6	12.2	U11.7s	11.4F	U10.2F	F	F	F	3
10.6	10.7	10.3	11.2	U11.1R	10.7	U10.3s	9.0	U7.8F	F	8.2F	F	4
10.9H	10.8	10.7	11.1	11.5	U11.8s	U11.7sH	10.6	U9.8s	F	F	U9.2F	5
10.8	10.4	10.4	10.6	U11.1R	11.2	11.2	U10.3R	U8.5F	F	U9.6F	U10.4F	6
11.8	10.6	10.4	10.7	11.5	11.5	11.0	10.2	9.2F	F	F	F	7
10.0	10.0	9.7	10.0	10.1	9.8	U9.4s	8.7	F	7.7	F	F	8
9.7	9.9	10.3	10.6	10.9	11.1	U10.9s	S	F	F	F	F	9
12.2	10.8	10.4	10.0	10.4	10.8	11.1	U9.7s	F	F	F	F	10
U12.0R	12.1	12.2	11.8	11.7	12.3	12.3	U11.6s	U10.1F	F	F	F	11
10.8H	11.2	10.8	10.6	10.8	11.0	U11.0s	10.2	9.3	9.1F	U9.7s	U9.1s	12
10.3	11.0	11.6	11.8	12.2	12.1	12.5	U11.6R	U9.7Fs	U9.6F	F	F	13
10.6	10.9	U11.3R	11.4	12.3	13.1	12.8	J12.1Rs	10.4	F	F	F	14
10.4	J11.2R	12.1	12.8	13.1	13.0	12.6	U11.7s	9.8F	U8.9F	F	J8.1s	15
10.6	C	C	C	12.4	12.8	12.7	F	F	F	F	F	16
9.8	10.2	C	C	11.0	11.5	11.3	10.5	U8.9F	U8.2F	F	C	17
C	C	C	C	12.4	13.0	12.3	11.2	U9.2F	F	F	F	18
10.6	10.2	9.9	C	11.1	12.0	U11.6s	J10.2R	8.6	U8.3F	F	F	19
10.6	10.8	11.6	12.3	12.2	12.0	U11.8s	F	F	F	F	F	20
11.7	11.8	11.6	11.8	11.9	11.6	J11.8s	12.5	10.9	9.9	8.8	9.0	21
12.6	13.0	13.2	13.0	U12.2R	12.0	10.8	9.8	F	F	F	F	22
11.4	11.6	11.6	11.2	10.8	11.4	11.5	10.7	U9.4F	F	F	F	23
11.0	11.3	11.6	11.8	12.2	12.0	12.1	11.4	U9.8F	10.9	U11.7s	10.8	24
12.0	11.8	11.8	C	11.0	11.1	11.4	10.9	9.2	F	F	F	25
10.9	11.3	11.0	10.7	10.0	9.9	U9.9s	U9.8s	9.2	8.8	F	F	26
10.7	10.8	11.1	11.1	10.8	10.7	11.0	10.6	9.3	F	U9.0F	F	27
10.0	10.1	10.7	11.1	11.0	11.3	11.6	10.5	F	U7.6F	F	F	28
12.5	12.9	11.8	11.3	11.3	11.0	11.2	10.3	9.5	8.8	U8.6W	U9.0F	29
10.6	C	10.6	11.0	11.7	12.3	12.7	U12.0s	10.7	U10.2F	F	F	30
29	27	27	25	30	30	30	27	23	14	9	9	Count
10.8	10.9	11.1	11.2	11.4	11.6	11.6	10.6	9.4	9.0	U9.6	U9.2	Median
11.0	11.0	11.1	11.2	11.4	11.6	11.5	10.7	9.5	9.1	49.5	U9.5	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : June 1958

TABLE 56—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	U7.2 ^s	U6.0 ^s	5.0	4.1 ^F	3.5	6.9	11.1	11.3	12.4	14.4	13.6	U11.3 ^W
2	U8.8 ^F	U8.7 ^F	F	F	F	8.3	10.5	10.9	11.6	U11.4 ^R	10.6	10.1
3	10.9	U10.2 ^F	9.2 ^F	U8.5 ^F	7.0	7.4	10.1	11.8	12.8	13.1	12.6	11.6
4	F	F	F	F	F	U7.4 ^F	10.1 ^F	11.6	12.4	12.0	11.1	10.8
5	8.9	9.3	9.2 ^F	F	C	9.0 ^F	11.4	12.4	13.0	12.7	11.3	10.7
6	F	F	F	F	8.4	8.4	10.8	11.8	12.4	12.1	10.9	10.8
7	F	F	F	9.6	6.2	6.6	10.0	11.5	11.9	12.4	12.3	11.9
8	F	U6.8 ^F	F	F	F	8.3 ^F	11.0	C	12.6	12.5	11.0	10.2
9	F	F	F	F	F	7.4	10.5	12.0	12.4	12.0	10.3	9.8
10	F	F	8.6	7.7	7.3	6.8	8.9 ^H	10.2	12.1	13.1	12.8	12.5
11	8.5	8.4	U8.6 ^F	7.8	J7.1 ^s	8.5	10.6	12.0	12.1	13.1	13.0	12.4
12	F	F	F ^s	F ^s	8.1	8.5	U10.1 ^s	11.5	11.8	11.0	10.5	10.5 ^H
13	8.4	F	F	F ^s	7.3	7.8	10.6	11.5	U11.1 ^R	10.2	9.9	10.3
14	F	F	F	F	U8.8 ^F	8.2	10.5	11.4	11.6	10.7	10.4	10.5
15	F	F	F	U8.2 ^F	6.5	6.2	U9.8 ^s	11.4	11.1	10.1	10.3	10.2
16	6.9	6.4	6.6	6.9	6.4	5.8	8.8	10.4	10.9	10.7	10.8	C
17	U7.8 ^F	U7.1 ^F	6.8	6.6	6.5	6.8	9.2	11.0	10.9	C	9.5	9.8
18	F	F	F	5.9	5.4	U6.2 ^R	8.9	10.6	11.6	C	C	C
19	F	U6.6 ^F	5.8	U6.1 ^s	U6.2 ^s	6.1	9.0	10.8	11.2	11.4	10.8	10.3
20	F	F	F	F	F	U7.4 ^F	10.2	11.5	11.8	12.0	11.8	10.8
21	F	F	F	F	5.9	6.7	9.9	10.7	10.6	10.7	11.3	11.6
22	U5.3 ^s	4.5	4.1	4.3	3.2	5.2	8.2	10.1	11.5	J12.2 ^R	11.8	12.3
23	F	F	F	F	4.8	6.2	9.8	11.4	12.1 ^H	12.0 ^H	11.3	11.4
24	F	F	F	F	F	7.3	10.2	11.0	11.2	10.6	10.6	10.7
25	9.2	U9.1 ^s	9.0	9.0	7.2	7.3	9.8	11.3	11.8	12.1	12.2	11.8
26	F	F	F	F	J6.3 ^F	7.1	10.2	U11.7 ^s	12.1	12.3	11.5	11.0
27	F	F	F	F	8.4	7.6	10.4	11.1	11.8	11.5	10.6	10.6
28	F	F	F	7.0	U5.3 ^s	5.7	9.1	10.4	9.8	9.5	9.7	10.0
29	F	F	F	U6.2 ^F	U5.4 ^s	6.6	9.8	11.1	C	13.4	13.2	12.5
30	9.0	8.5	U7.4 ^s	6.2	5.1	5.9	U9.5 ^s	12.0	12.6	12.7	11.4	10.8
Count	11	12	11	15	23	30	30	29	29	28	29	28
Median	8.5	U7.8	7.4	6.9	6.4	7.2	10.1	11.4	11.8	12.0	11.1	10.8
Mean	8.3	U7.6	7.3	6.9	6.4	7.1	10.0	11.2	11.8	12.2	11.3	11.0

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : June 1958

TABLE 56—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11.2	11.6	11.4	11.4	12.1	12.6	12.3	U11.0R	10.6	10.6	10.1	F	1
10.1	9.6	9.9	10.1	10.0	U9.6s	U9.7s	9.0	8.7	9.5	U10.2F	10.7	2
11.2	11.2	11.6	11.7	11.8	12.1	U11.8s	U10.6F	F	F	F	F	3
10.6	10.5	10.6	11.1	10.7	10.5	U9.9s	8.5	F	8.0F	8.4V	U8.4F	4
11.0	10.7	10.8	11.3	11.9	U11.8H	U11.3R	10.0	U9.2F	F	F	F	5
10.5	10.3	10.4	10.9	11.2	11.4	10.8	U9.5s	F	F	U9.9F	F	6
11.2	10.5	10.3	11.1	11.6	11.2	10.7	9.5	8.9	F	U9.4F	F	7
10.0	9.8	9.9	10.1	10.0	9.5	U9.2s	7.9	U7.5F	F	F	F	8
9.8	10.0	10.5	10.8	11.0	11.1	S	F	F	F	F	F	9
U11.5W	10.6	10.1	10.2	10.6	11.3	10.7	F	U8.0F	F	F	Fs	10
12.0	J12.1s	12.0	11.8	12.1	12.5	12.1	10.8	F	F	F	F	11
11.0	11.2	10.6	10.7	10.9	U10.9s	U10.8s	9.2	9.2	U9.5s	9.4	8.6	12
10.7	11.4	11.6	11.8	12.3	12.3	J12.3s	U10.2F	FS	F	F	F	13
10.8	11.2	11.3	11.7	12.8	U12.8R	13.0	11.0	FS	F	F	F	14
10.8	11.7	12.6	13.0	13.0	12.8	12.3	10.6	9.2	F	U8.6s	7.6	15
10.8	C	C	C	12.6	12.8	U12.0s	F	F	F	F	F	16
10.0	10.6	C	C	11.3	11.4	11.2	U9.6s	8.6	F	F	F	17
C	C	C	12.0	13.0	12.6	J12.2R	U10.4F	U8.6F	F	F	F	18
10.3	10.0	10.0	10.5	U11.6s	12.0	11.2	9.3	8.5	F	F	F	19
10.4	11.2	12.3	12.2	U11.9s	12.0	11.2H	F	F	F	F	F	20
11.7	11.8	11.6	11.8	11.6	11.6	12.2	U11.6s	10.3	9.2	J9.1s	7.7	21
12.9	12.9	13.1	U12.6R	12.2	11.5	10.5	U9.0F	F	F	F	F	22
11.5	11.6	11.5	10.8	11.3	U11.5s	11.2	9.8	U8.8F	F	F	F	23
11.2	11.4	11.6	12.0	12.1	12.2	U11.7s	10.6	J10.2R	U11.8s	11.4	10.3	24
11.8	11.7	C	10.9	11.0	11.2	11.4	9.8	8.6	F	F	F	25
10.9	11.3	10.9	10.4	9.9	10.3	U10.1s	U9.6s	8.9	8.8	F	8.1	26
10.8	10.9	11.0	11.0	10.6	10.8	11.0	10.0	9.4F	F	F	F	27
10.1	10.5	10.9	11.2	11.1	11.5	U11.3s	U9.6s	8.2	F	F	F	28
12.9	12.4	11.6	11.2	11.1	11.2	U10.2s	10.1	9.0	8.6	U8.6W	8.8	29
10.5	C	10.8	11.3	12.0	12.7	12.4	U11.1R	10.6	F	F	F	30
29	27	26	28	30	30	29	26	20	8	10	8	Count
10.8	11.2	11.0	11.2	11.6	11.5	11.2	9.9	8.9	9.4	U9.4	8.5	Median
11.0	11.1	11.1	11.3	11.5	11.6	11.3	9.9	9.0	9.5	U9.5	8.8	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : June 1958

TABLE 57

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5												
6								..	L	C	B	L
7								..	L	L	L	L
8								..	L	L	L	L
9								..	L	L	L	L
10												
11								L	L	LH	L	L
12								LH	L	L	L	L
13								L	L	L	L	L
14								L	L	L	LH	L
15								L	L	L	C	L
16								L	L	L	L	LH
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21							L	L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	LH
28								L	L	LH	LH	LH
29								L	L	L	LH	L
30								L	L	L	L	L
Count						
Median						
Mean						

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : June 1958

TABLE 57

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L						1
L	L	L	L	L	L							2
L	L	L	L	L	L							3
L	L	L	L	L	L							4
L	L	L	L	L	L							5
L	L	L	L	L	L							6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	L							9
L	L	L	L	L	L							10
LH	L	L	L	L	L							11
L	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
LH	L	L	L	L	L							15
LH	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L	L	L	L	L	L							30
..	..	I	..	..	..	..						Count
..	..	..	..	..	..	..						Median
..	..	..	..	..	..	..						Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : June 1958

TABLE 57—*contd.*

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							L	L	L	L	L	L
2							L	L	L	L	L	L
3							..	L	L	L	L	L
4							..	L	L	L	L	L
5							L	L	L	L	L	L
6							..	L	L	L	L	L
7							..	L	L	L	L	L
8							..	C	L	L	L	L
9							..	L	L	L	L	L
10							..	L	L	L	L	L
11							..	L	LH	L	L	L
12							..	LH	L	L	L	L
13							L	L	L	L	L	L
14							..	L	L	L	L	L
15							L	L	L	L	L	L
16							..	L	L	L	LH	C
17							..	L	L	C	L	C
18							..	L	L	L	L	C
19							L	L	L	L	L	LH
20							L	L	L	L	L	L
21							L	L	L	L	L	L
22							..	L	L	L	L	L
23							..	L	L	L	L	L
24							L	L	L	L	L	L
25							..	L	L	L	L	L
26							..	L	L	L	L	LH
27							..	L	L	LH	LH	LH
28							..	L	L	LH	LH	LH
29							..	A	C	L	L	L
30							..	L	L	LH	LH	L
Count						
Median						
Mean						

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : June 1958

TABLE 57—*contd.*

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L	L							1
L	L	L	L	L	..							2
L	L	L	L	L	..							3
L	L	L	L	L	..							4
					..							5
L	L	L	L	L	..							6
LH	LH	L	L	L	..							7
L	L	L	L	L	..							8
L	L	L	L	L	..							9
LH	L	L	L	L	..							10
L	L	L	L	A	..							11
L	L	L	L	L	..							12
L	L	L	L	L	..							13
LH	LH	LH	L	A	..							14
	L	6.3H	L	L	L							15
LH	C	C	C	L	..							16
L	C	C	C	L	..							17
L	C	C	C	L	..							18
LH	LH	LH	L	L	..							19
					..							20
L	L	L	L	L	L							21
L	L	L	L	L	..							22
L	L	L	L	L	..							23
L	L	L	L	L	..							24
L	L	L	L	L	..							25
LH	u6.5LH	u6.2L	L	L	..							26
LH	L	L	L	LH	..							27
LH	L	L	L	L	..							28
L	u6.4L	u6.3L	L	LH	..							29
L	C	L	A	L	..							30
..	2	3	..	..	..							Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc

Month : June 1958

TABLE 58

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							2.3	3.1	3.6	4.0	A	A
2							2.3	A	A	A	A	A
3							2.5H	3.1H	A	B	A	A
4							..	A	A	A	A	A
5							..	3.1H	A	A	A	A
6							2.5H	3.2	A	C	B	B
7							2.3	3.2	R	R	A	A
8							..	A	A	A	A	A
9							C	A	A	A	A	A
10							2.2	A	3.6	A	A	B
11							2.2H	A	A	A	A	B
12							2.1H	3.0H	A	A	A	A
13							..	A	A	A	A	A
14							2.3H	U3.1A	A	A	A	A
15							U2.4R	3.0	A	A	C	A
16							R	A	A	A	A	A
17							2.2H	A	A	C	C	A
18							2.2H	A	A	A	C	A
19							..	A	A	A	A	A
20							R	3.0	3.4	A	A	A
21							..	2.6	3.5H	U3.5A	A	A
22							2.1	3.0	3.5	A	A	A
23							..	2.9	A	A	A	A
24							R	A	A	A	A	A
25							..	3.0	A	A	A	A
26							2.2	A	B	B	B	A
27							..	A	A	A	A	A
28							..	U3.1A	A	A	A	A
29							..	A	A	A	A	4.0
30							R	A	A	A	A	A
Count							14	14	5	2	..	1
Median							2.2	3.0	3.5	..	..	..
Mean							2.3	3.0	3.5	..	..	..

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc

Month : June 1958

TABLE 58

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A	A							1
A	A	A	A	A	A							2
A	A	A	A	3.5	A							3
A	A	A	A	A	A							4
		B	A	A	A							5
A	A	A	A	A	A							6
A	A	A	B	R	A							7
A	A	B	A	A	A							8
A	A	A	A	A	A							9
												10
A	A	A	A	A	A							11
A	A	A	A	A	A							12
A	A	A	A	U3.0R	U2.4A							13
A	R	A	A	A	A							14
		U3.9R	U3.5R	3.1	2.9H							15
A	C	C	C	A	A							16
A	C	C	C	R	A							17
A	A	A	A	B	A							18
				A	A							19
				3.4	A							20
A	A	A	3.4	A	A							21
A	A	A	U3.5A	A	F							22
A	A	A	A	A	A							23
A	A	A	A	A	A							24
			C	A	A	2.0						25
A	A	A	A	A	U3.1A							26
A	A	A	A	A	A							27
A	A	A	A	A	A							28
A	C	A	A	A	..							29
												30
..	..	I	3	4	3	I						Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE

TABLE 58—*contd.*

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : June 1958

75.0°E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2.8	A	A	A	A	A
2							A	3.3	A	A	A	A
3							2.7H	U3.4A	A	A	A	A
4							..	A	A	A	A	A
5							3.0	3.4H	A	A	A	A
6							2.9	3.5	A	A	B	B
7							2.9	3.5	R	R	A	A
8							2.7	C	A	A	A	A
9							2.7	A	A	A	A	A
10							2.8	3.3	4.0	A	A	A
11							2.7H	A	A	A	A	A
12							2.6H	A	A	A	A	A
13							A	A	A	A	A	A
14							2.9H	A	A	A	A	A
15							U2.8A	U3.3A	A	A	A	A
16							2.8	A	A	A	A	C
17							2.6	A	A	C	A	C
18							2.7H	A	A	C	A	C
19							2.6	B	A	A	A	A
20							2.8	3.3	A	A	A	A
21							2.7H	3.1H	A	A	A	A
22							2.6	3.2	A	A	4.0	A
23							A	3.2	A	A	A	A
24							A	A	A	A	A	A
25							2.8	3.4	A	A	A	A
26							2.7	3.1	B	B	A	A
27							A	A	A	A	A	A
28							A	A	A	A	A	A
29							2.6	A	C	A	A	A
30							A	A	A	A	A	A
Count							22	13	I	..	I	..
Median							2.7	3.3	..	..	..	..
Mean							2.7	3.3	..	..	..	..

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc

Month : June 1958

TABLE 58—*contd.*

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	A	A							1
A	A	A	A	A	A							2
A	A	A	A	3.1	A							3
A	A	A	A	A								4
												5
A	A	A	A	A	..							6
A	A	A	B	R	A							7
A	A	A	A	A	A							8
A	A	A	B	R	A							9
			A	A	A							10
A	A	A	A	A	A							11
A	A	A	A	A	A							12
A	A	A	U3.1A	2.7								13
A	A	A	U3.2R	A								14
A	R	U3.8R	B	3.0	A							15
A	C	C	C	A	A							16
A	C	C	C	A								17
A	A	A	3.6	A								18
			A	A	A							19
A	A	A	B	A								20
A	A	A	A	A	A							21
A	4.0	A	A	A	A							22
B	A	A	A	A	A							23
A	A	A	U3.7A	A	F							24
			A	A								25
A	A	A	A	A								26
A	A	A	A	A								27
A	A	A	A	A								28
A	A	A	A	A								29
	C	A	A	A								30
..	I	I	4	3	..							Count
..	..	..	..	..	..							Median
..	..	..	..	..	..							Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : June 1958

TABLE 59

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	..						6.5	G	G	12.0	12.0	11.0
2		1.9					7.0	8.4	10.0	11.0	12.0	11.8
3							G	6.4	8.8	9.0	11.0	11.6
4	7.0							8.8	11.0	11.0	12.0	12.4
5								G	8.6	10.0	11.6	11.6
6	2.1	2.7	3.8				G	G	8.0	C	B	11.4
7	4.2		3.4				4.8	G	G	G	11.0	11.0
8		2.3	3.4	3.0				6.0	8.6	10.4	12.0	12.0
9							C	10.0	11.2	10.8	11.6	12.0
10							G	8.0	G	10.0	12.0	11.2
11							G	U9.6s	8.6	11.1	12.1	11.0
12		2.3					G	U7.0s	10.6	11.1	12.0	12.0
13		3.6						8.5	10.1	11.0	11.8	12.0
14		3.1					G	6.6	9.6	11.2	12.0	12.0
15							3.5	5.2	10.0	11.3	C	11.6
16							G	8.0	9.6	10.2	12.0	11.6
17							G	7.0	10.0	C	C	11.4
18	2.4						G	4.2	9.0	9.4	C	C
19		4.4	4.6					6.4	12.0	10.2	12.0	11.6
20		6.2	2.9				G	3.3	3.4	9.0	11.4	12.0
21	3.0	3.3						6.4	G	7.4	9.8	11.0
22		9.2	5.6				G	G	G	9.6	10.2	11.2
23	2.6						2.6	3.6	8.2	10.0	11.4	10.6
24	3.6		3.8	6.8	10.8		S	10.4	8.8	10.8	11.5	11.6
25	6.7						7.5	7.7	8.2	10.4	8.4	11.0
26	3.4						G	G	G	10.2	11.4	11.8
27								9.0	10.6	10.0	11.0	11.0
28		3.0					9.0	8.6	9.6	10.0	11.2	11.2
29								7.6	11.2	11.0	11.0	9.4
30							G	8.2	9.2	9.2	10.4	10.8
Count	9	11	7	2	1	..	20	30	30	28	26	29
Median	3.4	3.1	3.8	..	..	..	..	6.8	8.9	10.2	11.6	11.6
Mean	3.9	3.8	3.9	..	..	..	5.8	7.3	9.3	10.3	11.3	11.4

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : June 1958

TABLE 59

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
12.0	12.0	11.6	10.6	8.6	8.0						3.8	1
12.2	12.0	11.4	11.6	8.0	6.6							2
12.0	12.0	12.2	11.0	8.0	7.0	7.0						3
12.0	12.0	12.0	12.0	9.6	8.0				2.3			4
12.2	12.0	10.6	11.0	8.6	8.0	2.8						5
11.4	12.0	11.2	11.0	8.0	11.4					4.2		6
9.6	12.0	11.0	G	G	4.0					4.2		7
11.0	11.4	11.0	11.0	9.0	7.8					4.0		8
12.0	11.6	11.8	11.0	8.0	7.0	2.6				3.8		9
11.6	11.8	11.4	11.0	8.6	8.6	9.0						10
11.8	12.2	11.6	10.9	11.6	U10.78	U7.48						11
11.4	12.0	12.1	11.6	8.8	8.6	U6.58		3.0	6.8	4.1	3.1	12
11.5	10.8	10.0	8.4	G	U8.08							13
11.4	11.6	10.6	9.8	9.1	10.8	U7.68				3.8		14
9.8	G	G	G	G	G							15
11.4	C	C	C	8.0	7.0							16
11.4	11.0	C	C	G	4.2	5.6					C	17
C	C	C	C	G	6.4				3.3	2.2	2.6	18
11.6	11.4	10.8	C	11.0	12.4	6.0	3.4		3.4			19
11.6	10.0	8.6	8.0	G	8.0							20
11.4	11.5	10.5	6.8	7.8	8.4	U6.68	5.8	3.5		U5.08		21
11.0	10.4	10.8	8.6	8.4	7.0						U6.08	22
11.4	11.4	11.6	11.2	8.4	6.8	S						23
11.0	10.6	10.5	10.2	6.8	10.8	U7.68	2.6	2.7		3.9	5.1	24
11.4	11.6	11.4	C	8.8	8.4	G				2.4	S	25
10.0	10.4	10.6	10.6	7.6	7.0	5.8				5.6	7.0	26
11.6	12.6	13.0	12.6	8.6	7.0	U6.08	2.4		2.8	2.8	3.8	27
11.6	9.0	12.0	11.0	7.6	11.0					2.3		28
13.0	12.2	12.0	11.0	11.0	7.6	7.08						29
11.0	C	11.0	11.2	13.0	5.6	8.0	2.7		2.8	3.4	5.4	30
29	27	27	25	30	30	16	5	3	6	14	8	Count
11.4	11.6	11.2	11.0	8.2	7.9	6.6	2.7	..	3.0	3.8	4.4	Median
11.4	11.4	11.2	10.5	8.8	8.0	6.4	3.4	..	3.6	3.7	4.6	Mean

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : June 1958

TABLE 59—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							G	10.0	6.0	11.8	12.0	12.0
2							7.8	G	11.0	12.0	12.0	12.0
3							G	6.8	9.8	11.0	12.0	12.0
4	3.4						G	9.8	11.0	12.0	12.4	12.0
5					C		G	6.8	10.6	11.8	12.2	12.0
6	5.0	2.6					G	G	11.0	10.0	10.6	11.0
7							G	G	G	6.2	11.6	9.0
8		4.2	6.0	3.8			6.6	C	10.0	11.8	12.0	12.0
9			2.6				G	11.6	10.0	11.0	11.6	12.0
10	5.6						G	G	G	12.0	11.8	12.0
11							4.5	10.3	10.6	11.9	11.8	11.9
12		4.1					G	9.3	11.0	11.7	11.6	11.5
13		2.5	3.2				8.0	9.6	10.8	11.3	11.5	11.6
14							G	8.7	10.1	12.0	11.9	11.8
15							4.2	8.5	10.8	12.0	12.1	12.0
16							5.6	9.0	10.0	11.2	11.4	C
17							G	8.4	10.0	C	11.4	11.6
18							G	7.0	9.0	C	C	C
19	6.6						G	9.0	9.4	12.0	12.0	11.4
20	3.6	2.3	3.6				6.0	3.4	8.4	11.0	11.6	11.6
21		3.3					G	G	8.8	11.4	9.6	10.4
22	7.0		4.4			6.6	6.7 ⁸	4.4	10.2	11.2	9.2	11.4
23							3.6	G	10.4	11.6	11.4	11.4
24	3.2		3.9	7.6			6.8	10.0	10.6	11.6	11.6	11.6
25	4.4						6.5	8.0	8.4	11.0	9.7	11.4
26	2.3						G	G	9.6	11.0	11.6	10.4
27		4.0					10.0	11.0	9.4	9.8	11.0	11.4
28		2.7					8.6	9.0	9.6	11.0	11.4	11.4
29	4.0						G	8.6	C	11.4	11.2	12.4
30							5.6	10.0	11.0	11.0	11.2	11.6
Count	10	8	6	2	..	1	29	29	29	28	29	28
Median	4.2	3.0	3.8	..	..	..	G	8.5	10.0	11.4	11.6	11.6
Mean	4.5	3.2	3.9	..	..	..	6.5	8.6	9.9	11.3	11.4	11.4

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : June 1958

TABLE 59—contd.

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
12.0	12.0	12.0	9.0	8.0					2.6		3.8	1
11.6	12.0	12.0	9.0	8.0	6.0	2.2			3.0		4.0	2
12.0	12.0	11.6	10.0	6.6	7.8							3
12.0	11.4	12.0	10.0	8.6	7.4							4
12.0	12.0	12.2	9.0	8.0	4.0							5
11.8	11.0	11.6	9.0	7.6		6.0			4.0	3.4		6
12.0	11.8	11.0	G	G	8.0						6.0	7
11.0	12.0	11.2	8.6	8.8	7.0				2.6	3.4		8
12.0	12.0	11.0	8.0	G	7.0				3.4	3.6		9
12.0	11.2	12.0	9.0	8.0	8.0							10
12.0	11.8	11.1.18	9.8	11.6	11.08	S						11
11.7	12.0	11.8	10.1	8.8	11.68	11.68	3.6	11.68	4.9	3.2		12
11.2	10.4	9.4	7.0	G	11.08							13
11.3	11.0	10.0	7.6	9.6	8.4				3.3	2.9		14
11.3	G	G	B	G								15
11.6	C	C	C	9.6	6.0							16
11.4	11.0	C	C	3.4	6.2	2.4					2.6	17
C	C	C	G	7.2	11.68			3.3			3.2	18
11.6	11.4	10.4	10.4	12.4	8.0	4.6			6.4		3.4	19
11.0	8.8	9.0	6.0	8.0	7.0						2.4	20
11.6	11.2	9.4	7.8	8.6	9.3	S	S	8.0				21
10.8	10.2	10.5	8.3	8.2	S				2.0		3.0	22
11.2	11.6	11.4	8.5	7.7	8.2					4.4		23
11.0	10.4	10.6	7.8	9.6	13.4	2.5	2.5	6.5		5.6	S	24
11.8	11.6	C	8.6	8.0	S					4.8	4.3	25
10.0	10.6	10.8	8.6	7.8	3.6	11.48						26
11.8	13.4	12.2	11.6	7.0	6.0	11.08			4.6	3.8		27
11.6	12.4	12.4	8.1	8.6	7.0					3.4		28
10.0	11.4	11.2	11.0	8.2	8.0	4.0						29
11.0	C	10.2	12.6	7.0	8.2	4.0				2.9	8.8	30
11.5	11.4	11.1	9.0	8.3	7.2	4.0	..	..	3.7	3.8	4.2	Mean
11.6	11.4	11.2	8.6	8.0	7.4	4.2	..	..	3.4	3.4	3.6	Median
29	27	26	27	30	25	10	2	4	10	11	10	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : June 1958

TABLE 60

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							2.3			7.0	4.2	4.4
2		1.9					2.3	3.0	3.7	4.0	4.2	4.4
3								3.2	3.8	4.2	4.4	4.6
4	2.0							3.5	3.9	4.2	4.5	4.6
5									3.9	4.2	4.4	4.6
6	2.0	2.0	2.3						4.0	C		4.8
7	2.6										4.3	4.5
8			2.0	2.2				3.0	3.7	4.1	4.2	4.5
9							C	4.1	4.3	4.1	4.3	4.5
10								3.2		4.3	4.3	
11								3.4	4.0	4.2	4.3	4.5
12		1.8						3.1	3.6	4.1	4.2	4.4
13		2.1						3.0	3.5	4.0	4.2	4.3
14		1.8						3.1	3.6	4.0	4.3	4.5
15							2.3	3.0	3.7	4.2	C	4.4
16								3.0	3.6	4.0	4.0	4.4
17								3.0	3.6	C	C	4.4
18	2.0							3.0	3.6	3.9	C	C
19			2.0					3.0	4.2	4.0	4.4	4.4
20		1.6								4.0	4.2	4.4
21	2.8	2.2						3.1		4.0	4.2	4.4
22		2.7	2.2							4.2	4.2	4.4
23	2.2						2.4	3.0	3.6	4.0	4.2	4.4
24					2.6			3.5	3.6	4.1	4.3	4.4
25	2.8							3.1	3.6	4.1	4.2	4.4
26	2.4											4.6
27								4.0	4.1	4.1	4.4	4.6
28							3.7	3.1	3.6	4.1	4.4	4.4
29								3.0	4.4	5.0	4.4	4.4
30								3.2	4.0	4.0	4.3	4.6
Mean	2.4	2.0	..	..	..	..	2.6	3.2	3.8	4.2	4.3	4.5
Median	2.3	2.0	..	..	..	..	2.3	3.1	3.7	4.1	4.3	4.4
Count	8	8	4	1	1	..	5	23	23	26	25	28

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : June 1958

TABLE 60

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
4.5	4.4	4.2	3.8	3.6	3.0						1.9	1
4.6	4.4	4.2	3.8	3.5	3.0							2
4.6	4.6	4.3	4.0	3.6	3.0	2.6						3
4.5	4.4	4.3	4.0	3.6	3.0				2.0			4
4.7	4.6		4.1	3.6	3.1	2.4						5
4.6	4.5	4.4	4.0	4.0	5.0					2.2		6
4.6	4.4	4.5	..		3.2					2.2		7
4.5	4.4		4.0	3.6	3.0					2.1		8
4.5	4.7	4.4	4.0	3.6	3.0	2.3				2.0		9
5.0	4.4	4.1	3.9	3.5	3.0							10
4.6	4.3	4.1	3.8	5.2	3.4	2.4						11
4.5	4.8	4.3	4.0	3.8	3.3	2.3		1.9	2.0	1.8	1.9	12
4.4	4.2	4.1	4.0		3.0							13
4.5	4.3	4.2	3.8	4.4	5.0	2.7				2.1		14
4.5					..							15
4.6	C	C	C	3.4	3.0							16
4.4	4.3	C	C		3.0	2.4					C	17
C	C	C	C		3.0				2.2	2.0	2.2	18
4.6	4.4	4.2	C	4.8	7.0	2.4	2.4					19
4.6	4.4	4.2	3.8		3.0							20
4.6	4.6	4.1		3.6	3.1	3.0	3.2	2.3				21
4.4	4.3	4.2	3.7	3.6	3.0						2.8	22
4.5	4.6	4.3	4.0	3.6	3.0	2.0						23
4.4	4.4	4.2	3.7	3.6	4.2	2.7	1.9	2.2			3.0	24
4.5	4.4	4.3	C	3.6	3.0					2.2	2.7	25
4.6	4.4	4.4	4.0	3.6	3.0	2.6					2.4	26
4.6	5.0	5.1	4.6	3.9	3.1	3.5			2.2	2.2	2.8	27
4.6	4.4	5.0	4.0	3.7	4.2							28
5.6	6.0	4.1	4.0	4.2	3.2	2.8						29
4.6	C	4.3	4.3	6.2	3.0	3.2			2.0	2.2	2.4	30
4.6	4.5	4.3	4.0	3.9	3.4	2.6	..	..	2.1	2.1	2.5	Mean
4.6	4.4	4.2	4.0	3.6	3.0	2.6	..	..	2.0	2.2	2.4	Median
29	26	24	22	24	29	15	3	3	5	10	9	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : June 1958

TABLE 60—*contd.*

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2°

Longitude : 77.5°

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								3.4	4.8	4.2	4.4	4.4
2							2.8		3.8	4.2	4.4	4.6
3								3.5	4.0	4.2	4.3	4.5
4	2.0							3.6	4.0	4.3	4.6	4.5
5								3.6	4.3	4.4	4.4	4.6
6												
7	2.3	2.4							4.2	4.2	4.8	4.6
8		2.2	2.4	2.2			2.7	C	4.0	5.0	4.4	4.5
9			2.1					4.5	3.8	4.2	4.4	4.4
10	2.1									4.1	4.4	4.6
11										4.2	4.4	4.4
12		2.1						2.8	4.3	4.1	4.2	4.5
13		2.1	1.9					3.5	3.9	4.3	4.3	4.4
14							2.7	3.3	3.9	4.1	4.3	4.4
15								3.4	3.8	4.1	4.3	4.6
16							2.9	3.5	4.0	4.3	4.3	4.4
17												
18								3.4	3.9	4.0	4.2	C
19								3.3	3.8	C	4.4	4.4
20	2.5							3.3	3.7	C	C	C
21	2.2								4.0	4.2	4.3	4.4
22		2.2							4.0	4.2	4.3	4.5
23	3.0		2.1				2.7		4.1	4.0	4.4	4.5
24							2.8		3.8	4.1	4.4	4.6
25	2.9		2.1	2.8			2.8	3.4	4.0	4.1	4.4	4.4
26								3.4	3.8	4.2	4.4	4.5
27												
28		1.9					4.0	4.2	4.0	4.2	4.4	4.6
29							3.0	3.4	3.9	4.2	4.5	4.6
30							2.8	6.0	C	4.3	4.4	5.4
								3.4	4.3	4.2	4.4	4.4
Mean	2.4	2.2	2.1	..	..	..	2.9	3.6	4.0	4.2	4.4	4.5
Median	2.3	2.2	2.1	..	..	..	2.8	3.4	4.0	4.2	4.4	4.5
Count	7	6	6	2	..	..	10	19	26	27	29	28

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : June 1958

TABLE 60—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.5	4.4	4.0	3.8	3.6					2.2		1.9	1
4.5	4.3	4.0	4.0	3.2	2.5	1.9			2.2		2.4	2
4.6	4.6	4.2	3.8	3.2	3.2							3
4.5	4.4	4.2	3.8	3.2	2.6							4
4.8	4.6	4.4	3.8	3.5	2.6							5
4.6	4.4	4.2	3.8	3.4		2.2			2.7	2.2		6
4.5	4.5	4.2			3.0						2.6	7
4.4	4.3	4.5	3.8	3.2	2.5				2.3	2.0		8
4.4	4.4	4.2	4.2		3.0				2.5	2.2		9
4.5	4.4	4.0	3.7	3.3	2.6							10
4.5	4.4	4.2	4.0	3.8	6.1	2.8	1.8					11
4.7	4.4	4.2	3.8	4.3	2.6	2.0	1.7	2.0	2.1	1.8		12
4.4	4.3	4.0	3.9		2.7							13
4.5	4.3	4.0	3.8	4.8	3.7				2.1	2.1		14
4.5												15
4.6	C	C	C	3.2	2.6							16
4.4	4.2	C	C	3.2	2.6	2.0					2.0	17
C	C	C		3.6	2.6						2.4	18
4.5	4.2	4.0	5.0	6.7	3.6	2.0			2.8		2.2	19
4.4	4.2	4.0		3.2	2.5						2.2	20
4.6	4.5	4.3	4.0	3.4	3.6	2.6	2.3	3.1				21
4.4	4.1	4.0	3.8	3.2							2.2	22
	4.5	4.1	3.9	3.3	2.8					2.3		23
4.4	4.3	4.0	3.9	4.1	4.6	2.0	1.9	3.0		2.6	3.0	24
4.5	4.4	C	4.0	3.4						2.7	2.4	25
4.6	4.4	4.1	3.9	3.3	2.6	2.3			2.0			26
4.5	5.2	4.5	5.0	3.4	3.0	2.4			2.6	2.4		27
4.6	4.6	4.6	3.8	4.0	3.0							28
5.4	4.5	4.4	4.0	3.4	3.0	2.2						29
4.6	C	4.2	7.2	3.4	2.8	1.8				2.2	2.3	30
4.6	4.4	4.2	4.1	3.6	3.0	2.2	..	..	2.4	2.2	2.3	Mean
4.5	4.4	4.2	3.9	3.4	2.8	2.1	..	..	2.2	2.2	2.3	Median
28	26	25	24	26	25	12	4	3	10	10	11	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : June 1958

TABLE 61
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	1.8	1.9	1.7	2.0	2.0	1.8	2.1	2.1	2.3	3.0	2.5	3.2
2	2.0	1.5	1.6	1.8	2.2	1.7	1.6	1.7	2.6	2.8	3.0	3.0
3	2.0	1.8	2.2	2.0	1.8	1.8	1.7	2.0	2.4	4.0	3.0	3.0
4	1.5	1.9	2.0	2.0	1.7	1.7	2.6	2.4	2.8	3.0	3.0	3.2
5	1.5	1.7	1.8	1.7	1.8	1.7	2.4	2.7	2.5	3.0	2.8	3.2
6	2.0	2.0	1.9	2.0	1.7	1.8	2.1	2.0	2.3	C	7.1	4.2
7	2.0	2.5	2.4	2.2	2.1	1.8	2.0	2.3	3.0	3.3	3.0	3.2
8	2.2	1.9	2.0	1.9	2.2	2.2	2.3	2.2	2.7	3.1	3.0	3.3
9	2.0	1.8	1.8	2.0	2.6	2.0	C	2.1	2.5	2.8	3.0	3.2
10	2.1	1.9	2.2	1.7	2.2	1.8	1.5	2.0	2.6	3.1	3.0	4.6
11	1.9	1.7	2.0	1.7	1.8	1.8	1.8	1.9	2.7	3.0	3.1	4.4
12	2.0	1.7	1.8	2.2	1.9	1.6	1.7	1.9	2.6	3.0	2.8	3.1
13	1.9	2.0	1.8	1.6	1.8	1.9	2.3	2.1	2.4	2.8	2.9	3.0
14	1.7	1.6	1.5	1.7	1.6	1.6	1.7	2.0	2.3	2.7	2.8	3.0
15	2.4	2.2	1.9	1.9	1.6	1.6	1.6	2.0	2.9	2.9	C	3.1
16	2.0	1.9	1.7	1.7	2.0	1.7	1.8	1.9	2.4	2.9	3.0	3.2
17	2.2	2.2	1.8	1.9	2.2	1.8	1.6	1.9	2.2	C	C	3.0
18	1.7	1.8	1.7	1.8	1.4	1.6	1.8	1.6	2.3	3.0	C	C
19	2.1	2.1	1.6	2.4	2.2	2.0	2.2	2.2	2.6	3.0	3.0	3.2
20	1.8	1.3	1.6	2.0	1.7	1.7	1.9	2.2	2.3	3.4	3.0	3.2
21	2.2	1.8	2.4	2.4	1.8	1.8	2.2	1.9	2.2	2.5	2.7	3.0
22	2.2	1.4	1.8	2.4	2.2	1.9	1.7	2.0	2.9	2.9	3.0	3.2
23	2.0	2.4	2.4	2.5	1.8	1.9	1.7	2.0	2.3	2.6	2.5	2.9
24	1.9	2.2	2.0	2.3	2.2	1.9	1.8	2.1	2.4	2.8	3.1	3.1
25	2.8	2.8	2.7	2.8	3.2	2.2	2.6	2.2	2.6	3.0	3.0	3.1
26	1.9	2.1	2.1	2.0	1.9	1.8	1.8	2.4	4.4	5.0	4.8	3.8
27	2.0	2.0	2.2	2.0	1.8	1.9	1.9	2.2	2.6	2.8	2.6	2.7
28	2.0	1.9	2.0	1.6	1.8	1.7	1.6	1.9	2.4	2.6	2.8	2.8
29	2.6	3.0	2.4	2.2	2.3	1.8	2.1	2.4	2.6	3.0	2.9	3.0
30	2.0	2.1	1.7	1.6	2.2	1.6	1.7	1.8	2.4	2.5	2.7	3.0
Mean	2.0	2.0	2.0	2.0	2.0	1.8	1.9	2.1	2.6	3.0	3.1	3.2
Median	2.0	1.9	1.9	2.0	1.9	1.8	1.8	2.0	2.5	3.0	3.0	3.1
Count	30	30	30	30	30	30	29	30	30	28	27	29

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : June 1958

TABLE 61—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
3.2	3.2	3.0	2.8	2.6	2.2	2.4	2.0	1.8	1.9	2.1	1.4	1
3.6	3.2	3.0	2.6	2.6	1.9	2.4	1.9	1.7	U2.28	2.3	1.9	2
3.2	3.2	3.0	2.6	2.8	2.1	1.7	1.9	1.9	2.0	1.9	2.0	3
3.2	3.0	3.0	2.7	2.7	2.2	2.1	2.1	2.0	1.6	2.4	1.8	4
3.4	3.0	5.6	2.6	2.6	2.4	2.4	1.9	1.7	1.8	1.8	2.2	5
4.0	3.4	3.4	2.7	3.0	2.3	2.2	2.0	2.0	2.6	1.8	2.2	6
4.0	3.2	3.1	4.4	3.2	2.6	2.2	1.7	1.8	2.2	2.0	2.4	7
3.2	3.3	5.4	3.0	2.6	2.1	2.0	2.3	2.0	2.0	2.0	2.0	8
3.3	3.2	3.0	2.7	3.0	2.0	2.2	2.1	2.1	1.9	1.8	2.2	9
3.2	2.8	2.8	2.5	2.6	2.0	1.9	1.8	2.0	1.7	1.8	2.0	10
3.0	3.1	2.9	2.5	2.3	2.1	1.6	1.6	1.8	1.9	1.8	2.1	11
3.4	3.5	3.0	2.5	2.5	2.2	1.7	1.7	1.7	1.4	1.7	1.8	12
3.2	3.0	2.7	2.6	2.5	2.4	2.3	1.7	2.1	2.0	2.1	1.9	13
3.2	3.2	2.8	2.6	2.4	2.3	1.4	1.8	1.9	2.1	1.5	2.1	14
3.4	3.3	3.2	3.2	2.7	2.5	2.3	1.7	2.1	2.2	2.3	1.9	15
3.4	C	C	C	2.5	2.3	2.0	1.8	2.0	2.1	2.2	2.2	16
3.4	3.0	C	C	2.8	2.0	1.5	1.5	2.2	1.8	1.9	C	17
C	C	C	C	3.6	2.0	2.3	2.2	2.0	1.6	1.4	2.0	18
3.4	3.2	3.0	C	2.7	2.0	1.6	1.6	2.0	1.8	1.7	1.8	19
3.2	3.0	3.0	2.6	2.6	2.0	2.2	2.0	2.0	2.0	2.2	2.2	20
3.1	3.0	2.8	2.6	2.5	2.1	1.7	1.7	1.7	2.0	2.0	2.0	21
3.1	3.0	3.0	2.6	2.4	2.3	2.2	1.5	2.0	2.0	2.0	1.5	22
3.2	3.8	3.0	2.8	2.7	2.2	1.8	1.6	2.2	2.0	2.2	2.3	23
3.0	2.9	2.8	2.6	2.3	2.0	1.8	1.5	1.6	2.5	2.4	2.6	24
3.3	3.4	3.1	C	2.7	2.4	1.8	1.6	1.8	2.2	1.5	2.2	25
3.2	3.8	3.1	2.8	2.7	2.2	1.6	1.8	1.8	2.0	1.5	1.8	26
3.0	3.1	3.0	2.6	2.4	1.9	1.6	1.7	1.9	1.5	1.8	1.9	27
3.0	3.0	3.0	2.6	2.3	2.2	2.0	1.5	2.2	2.2	1.8	2.4	28
3.2	3.2	2.8	2.5	2.5	2.1	1.6	1.6	1.9	1.9	2.3	1.9	29
2.9	C	2.8	2.6	2.3	1.9	1.5	1.8	1.9	1.5	1.8	2.0	30
3.3	3.2	3.2	2.7	2.6	2.2	1.9	1.8	1.9	2.0	1.9	2.0	Mean
3.2	3.2	3.0	2.6	2.6	2.2	2.0	1.8	2.0	2.0	1.9	2.0	Median
29	27	27	25	30	30	30	30	30	30	30	29	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin
Unit : Mc
Month : June 1958

TABLE 61—*contd.*
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.3	1.8	1.9	2.2	2.2	2.2	2.0	2.3	2.6	2.5	3.0	3.1
2	1.5	1.7	1.6	1.8	1.7	2.2	1.6	2.3	2.4	2.8	3.0	3.3
3	1.9	1.7	1.8	1.8	1.6	2.1	1.9	2.2	2.6	2.9	3.1	3.2
4	1.7	1.9	1.9	1.9	2.1	2.4	3.0	2.5	2.9	3.0	3.2	3.2
5	1.6	1.8	2.0	1.8	C	2.1	1.9	2.4	2.8	3.0	3.2	3.2
6	1.6	2.2	2.1	2.1	1.8	2.2	2.2	2.3	2.5	3.0	4.8	4.1
7	2.4	2.9	3.0	2.3	1.7	2.2	1.9	3.0	3.2	3.5	3.0	4.0
8	2.0	1.7	2.1	1.7	2.4	2.2	2.0	C	2.8	3.0	3.2	3.4
9	1.9	2.0	1.9	1.7	2.3	2.2	2.0	2.4	2.5	2.8	3.0	3.6
10	2.0	2.3	2.1	2.0	1.9	2.1	1.7	2.3	3.0	3.0	3.2	3.2
11	1.8	1.8	1.9	1.8	1.7	2.0	1.8	2.2	3.1	2.9	3.2	3.0
12	2.1	1.5	2.1	1.9	1.8	2.2	1.7	2.3	2.7	3.0	3.0	3.3
13	1.5	1.8	1.8	1.8	2.1	2.2	1.8	2.2	2.6	3.0	3.1	3.1
14	1.9	1.7	1.6	1.9	1.7	2.3	1.9	2.0	2.3	2.6	2.9	3.0
15	2.1	2.0	1.9	2.0	1.7	2.1	1.8	2.3	2.8	2.9	3.0	3.3
16	1.8	1.8	1.6	1.9	1.7	2.2	1.9	2.2	2.6	3.0	3.0	C
17	2.3	2.0	1.6	1.7	2.2	2.2	1.7	2.0	2.4	C	3.0	3.0
18	1.6	1.6	2.0	1.6	1.5	2.1	1.6	1.8	2.6	C	C	C
19	1.7	2.1	2.0	2.0	2.2	2.1	1.8	4.4	2.7	3.0	3.0	3.2
20	1.4	1.5	1.3	1.7	1.7	2.0	1.6	1.8	2.5	3.0	3.0	3.2
21	2.6	1.6	2.3	1.8	1.8	2.0	1.7	2.2	2.3	2.4	2.9	3.2
22	1.8	1.7	1.6	2.5	1.8	2.2	1.7	2.6	3.0	2.8	3.2	3.0
23	2.2	2.4	2.3	2.2	2.0	2.2	1.9	2.4	2.5	2.6	2.8	2.8
24	2.2	2.1	2.1	2.7	2.1	2.0	1.9	2.2	2.7	3.0	3.0	2.9
25	2.7	2.6	2.6	2.5	2.4	2.6	2.0	2.2	2.5	2.8	3.0	3.2
26	1.9	2.2	2.0	2.0	2.0	2.2	2.2	2.4	5.0	4.8	4.0	3.4
27	1.8	2.2	2.3	2.2	1.9	2.0	2.1	2.2	3.0	2.8	2.7	2.9
28	1.9	1.8	1.8	1.7	1.8	1.9	1.7	1.9	2.4	2.5	2.8	2.8
29	2.4	3.0	2.6	2.4	2.0	2.2	2.2	2.6	C	2.8	3.0	3.2
30	2.2	1.9	1.7	1.6	1.7	2.3	1.7	1.9	2.4	2.6	2.8	3.4
Mean	2.0	2.0	2.0	2.0	1.9	2.2	1.9	2.3	2.7	2.9	3.1	3.2
Median	1.9	1.8	2.0	1.9	1.8	2.2	1.9	2.3	2.6	2.9	3.0	3.2
Count	30	30	30	30	29	30	30	29	29	28	29	28

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : June 1958

TABLE 61—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
3.0	3.0	2.7	3.1	2.6	2.6	1.7	2.0	1.9	1.8	2.0	1.9	1
3.2	3.0	2.8	2.7	2.2	1.8	1.7	U1.98	U1.78	1.6	2.2	1.5	2
3.0	3.3	2.8	2.9	U2.48	1.7	1.8	1.9	2.1	2.0	2.0	1.8	3
3.2	3.0	3.0	2.6	2.4	2.0	1.6	1.9	2.2	2.0	1.8	2.2	4
3.6	3.0	3.4	3.0	2.8	2.0	1.7	1.8	1.8	2.2	1.9	1.8	5
3.8	3.5	3.0	2.9	2.6	2.6	1.4	1.7	2.2	2.2	2.1	2.3	6
3.4	3.6	3.0	4.4	3.0	2.0	1.6	1.7	2.0	2.2	2.6	2.0	7
3.4	3.1	3.4	3.0	2.5	1.9	1.5	1.6	2.0	2.0	1.9	2.0	8
3.1	3.0	3.1	4.2	2.5	2.0	1.7	2.0	1.9	1.8	1.5	2.2	9
3.0	2.8	2.6	2.8	2.2	1.8	1.6	2.4	2.2	1.8	1.8	1.6	10
3.1	3.0	2.7	2.5	1.9	2.0	1.5	1.7	1.8	1.7	1.9	1.9	11
3.8	3.1	2.7	2.6	2.4	1.9	1.4	1.5	1.4	1.3	1.7	2.2	12
3.2	3.0	2.7	2.7	2.5	2.2	1.8	2.2	2.2	2.0	1.9	1.9	13
3.3	3.0	2.9	3.0	2.9	1.9	1.9	1.8	1.8	1.6	1.9	2.3	14
3.2	3.3	3.1	4.0	2.7	2.7	1.6	1.9	1.9	2.0	2.2	1.8	15
3.2	C	C	C	2.4	1.7	1.7	2.0	2.0	2.0	1.9	1.7	16
3.0	3.0	C	C	2.2	1.6	1.6	2.2	1.8	2.0	1.8	1.5	17
C	C	C	2.6	2.0	2.2	2.0	2.0	1.7	1.9	1.9	1.9	18
3.2	3.0	2.6	3.4	2.4	2.0	1.3	1.3	2.0	1.4	1.7	1.5	19
3.1	3.3	2.6	3.0	2.4	1.9	1.4	2.0	2.0	2.3	2.4	1.8	20
3.0	2.9	2.8	2.5	2.2	2.2	1.8	1.7	1.5	2.0	1.9	2.2	21
3.2	3.0	2.6	3.0	2.4	2.0	1.6	1.9	2.2	1.7	U2.28	1.6	22
4.8	3.2	2.7	2.8	2.4	1.6	1.6	1.7	1.9	1.9	1.6	2.0	23
3.0	3.0	2.6	2.8	2.2	1.8	1.6	1.4	1.8	2.8	2.2	2.6	24
3.3	3.2	C	2.8	2.5	2.0	1.7	1.9	2.0	2.2	1.5	2.2	25
3.3	3.2	3.0	3.0	2.4	2.2	1.3	1.9	2.0	1.5	2.2	2.4	26
3.0	2.8	2.8	2.6	2.1	1.6	1.2	2.0	1.9	1.6	2.0	2.4	27
2.9	3.0	3.0	2.4	2.2	1.7	1.6	2.0	2.0	2.2	1.7	2.4	28
3.0	2.8	2.7	2.6	2.2	1.9	1.5	1.7	2.2	2.4	2.2	2.6	29
3.0	C	2.8	2.6	2.2	1.7	1.4	1.8	2.0	2.0	2.0	2.0	30
3.2	3.1	2.9	2.9	2.4	2.0	1.6	1.8	1.9	1.9	2.0	2.0	Mean
3.2	3.0	2.8	2.8	2.4	2.0	1.6	1.9	2.0	2.0	1.9	2.0	Median
29	27	26	28	30	30	30	30	30	30	30	30	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2

Unit : Km.

Month : June 1958

TABLE 62

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	LH	L	L	L
2								L	L	L	LH	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								..	L	G	L	L
7								..	L	L	425	LH
8								..	L	L	L	L
9								..	L	LH	L	LH
10								..	L	L	LH	LH
11								L	L	L	L	L
12								L	L	LH	LH	LH
13								L	L	L	L	LH
14								L	L	L	L	L
15								L	L	L	C	LH
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21							L	L	L	L	L	L
22							L	L	L	L	L	L
23							L	L	L	LH	L	L
24							L	L	L	L	L	L
25							L	L	L	L	L	L
26							L	L	L	L	L	L
27							L	L	L	L	L	L
28							L	L	L	L	L	L
29							L	L	L	L	L	L
30							L	L	L	L	L	L
Mean						
Median						
Count							1	1

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2

Unit : Km.

Month : June 1958

TABLE 62

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
LH	L	L	L	L	L							1
L	L	L	L	L	L							2
L	L	L	L	L	L							3
L	L	L	L	L	L							4
L	L	L	L	L	L							5
L	L	L	L	L	L							6
LH	LH	L	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	L							9
LH	L	L	L	L	L							10
L	L	L	L	L	L							11
LH	L	L	L	L	L							12
LH	L	L	L	L	L							13
L	L	LH	L	L	L							14
LH	L	u430L	u420L	L	400	L						15
L	C	C	C	L	L							16
L	C	C	C	L	L							17
L	C	C	C	L	L							18
L	u460L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
440	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L	C	L	L	L	L							30
..	..	..	..	..	..	..						Mean
..	..	..	..	..	..	..						Median
I	I	I	I	..	I	..						Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2

Unit : Km.

Month : June 1958

TABLE 62—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							L	L	L	L	L	L
2							L	L	L	L	L	L
3							..	L	L	L	L	L
4							..	L	L	L	L	L
5							L	L	L	L	L	L
6							..	L	L	L	L	L
7							..	L	L	L	LH	LH
8							..	C	L	L	L	L
9							..	L	L	LH	L	L
10							..	L	L	L	LH	LH
11							..	L	L	L	L	L
12							..	L	L	L	LH	LH
13							L	L	L	L	L	LH
14							..	L	L	L	L	L
15							L	L	L	L	L	LH
16							..	L	L	L	L	C
17							..	L	L	C	L	C
18							..	L	L	C	L	C
19							L	L	L	L	L	L
20							L	L	L	L	L	L
21							L	L	L	L	4 ¹⁰	L
22							..	L	L	L	L	L
23							..	L	LH	LH	L	L
24							L	L	L	L	L	L
25							..	L	L	L	L	L
26							..	L	L	L	L	L
27							..	L	L	L	L	L
28							..	L	L	L	L	L
29							..	L	L	L	L	L
30							..	L	L	L	L	L
Mean						
Median						
Count							I	..

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F2

Unit : Km.

Month : June 1958

TABLE 62--contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10.2° N

Longitude : 77°5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
LH	L	L	L	L	L							1
L	L	L	L	L	..							2
L	L	L	L	L	..							3
LH	L	L	L	L	..							4
					..							5
L	L	L	L	L	..							6
LH	LH	L	L	L	..							7
L	L	L	LH	L	..							8
L	L	L	L	L	..							9
LH	L	L	L	L	..							10
L	L	L	L	L	..							11
u470L	L	L	L	L	..							12
LH	L	L	L	L	..							13
L	L	L	L	L	..							14
	u420L	440	420	410	L							15
L	C	C	C	L	..							16
L	C	C	C	L	..							17
L	C	C	L	L	..							18
L	L	L	L	L	..							19
L	L	L	L	L	L							20
L	L	L	L	L	..							21
L	L	L	L	L	..							22
L	L	L	L	L	..							23
L	L	C	L	L	..							24
L	u500L	u480L	L	L	..							25
L	L	L	L	L	..							26
L	L	L	L	L	..							27
L	u480L	u490L	L	L	..							28
L	C	L	E	L	..							29
					..							30
..	..	..	..	..	..							Mean
..	..	..	..	..	..							Median
1	3	3	1	1	..							Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km.

Month : June 1958

TABLE 63

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	220	225	320	350	330	265	250	245	235	A	220H	215H
2	360	360	355	U345F	U295F	245	270	240	230	220	220H	215H
3	320	320	300	260	220	225	260	245	235	230	225	215H
4	U305F	U325F	U360F	U330F	240	215	265	245	235	225	215	215H
5	280	290	300	280	250	230	260	240	230	215H	215H	210H
6	335	340	335	280	235	220	260	240	230	C	B	215H
7	340	380	335	240	210	220	260	235	230	220	220	220
8	395	400	400	375	320	270	260	240	220	225	215	210H
9	365	380	400	380	295	220	C	245	U240A	215H	200H	200H
10	400	360	300	235	220	205	260	240	235	230	215H	215H
11	325	320	295	240	225	235	260	240	240	230H	220	220
12	U320F	400	360	300	260	240	260	235H	230	220	210	205
13	360	365	350	310	250	230	260	240	230	215	220	215
14	380	375	340	310	240	220	260	240	220	210	205H	200
15	380F	F	280	270	230	220	260	250	235H	220	C	210
16	390	380	340	280	220	220	255	240	225	215	210	200H
17	310	300	305	300	260	220	260	230	220	C	C	210
18	350	280	240	240	220	220	240	235	220	215	C	C
19	340	305	305	300	260	230	260	240	240	210	220	200
20	U340F	U320F	320	U320F	U280F	240	260	240	220	210	200	200
21	F	400	U320F	265	230	235	260	240	220H	210H	200H	205H
22	490	U460A	420	335	280	380	280	245	230	230	215	210
23	U480F	F	U385F	290H	215	240	245	240	230	220	210H	205H
24	U325F	335	325	300	240	240	260	U240A	220	215	215	215
25	285	285	280	265	245	245	275	245	225	220	210	210H
26	360	410	440F	420	290	235	260	240	240	B	235	220
27	365	350	340	310	240	220	265	A	240	215	210	200
28	380	340	270	225	220	230	A	250	225	220	210	200
29	420F	400	305	235	260	235	275	245	A	U245A	225	215
30	310	290	240	245	250	240	280	250	240	220	210	220
Mean	355	345	330	295	250	235	260	240	230	220	215	210
Median	360	345	320	295	240	230	260	240	230	220	215	210
Count	29	28	30	30	30	30	28	29	29	26	26	29

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km.

Month : June 1958

TABLE 63

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
210	220	215H	230H	240H	250	295	360	U410F	425	U390F	360	1
220H	210H	210	220	230	255	295	380	450	U440F	390	330	2
215H	210H	215	220	235H	255	295	U360F	F	F	U350F	U340F	3
210	210	215	220	230	260	300	400	F	F	U340F	325	4
200H	200	B	230	240	255	295	390	U420F	U430F	U390F	F	5
205H	210H	210H	220	240	A	295	400	F	F	375	340	6
215	215	220	235	240	275	315H	400	440	F	400	360	7
200H	205H	B	220	240H	260	300	400	F	F	430	400	8
200H	210H	220	220H	240	260	300	420	F	460	470	430	9
230	200H	200H	200H	225	255	300	400	F	470	400	360	10
210H	215	220	230	A	265	295	380	F	F	U425F	U390F	11
200	U230A	215	235	260	270	295	360	420	410	385	380	12
205	205	215	220	230	260	290	370	F	U400F	430F	390	13
205	205	200H	205H	A	A	U290A	360	420F	F	U480F	F	14
200H	200	215	230	240	260	295	380	F	F	U420F	390	15
200H	C	C	C	230	260	290	395	F	U360F	U370F	325	16
200	205	C	C	230	240	280	340	U400F	U440F	U420F	C	17
C	C	C	C	210H	240	280	U350F	U400F	440	U400F	360F	18
200	210	205	C	A	A	280	380	440	420	380	350	19
200H	205H	200H	210	220	240	280	U360F	F	F	U460F	U460F	20
225	225H	205H	215H	230	250	295	U345A	U345F	360	380	335	21
220	205H	215	220	230	245	270	355	355	U460F	U440F	U480F	22
200H	210	220	220	230	245	280	370	U470F	F	U420F	395	23
205H	200H	210	215	230	U280A	295	360	U400F	345	290	290	24
205H	220	220	C	225	250	290	350	U440F	F	F	U380F	25
215	210	220	225	230	260	295	360	395F	400F	420	380F	26
205	A	A	245	235	255	290	380	430	460F	420F	425	27
205	220	240	220	230	A	295	390	F	F	F	450F	28
A	A	225	230	U260A	265	310	370	400	440	440	360	29
220	C	220	230	A	245	295	370	400F	400F	420F	420F	30
210	210	215	225	235	255	295	375	415	420	405	380	Mean
205	210	215	220	230	255	295	370	415	430	410	380	Median
28	25	24	25	26	26	30	30	18	18	28	27	Count

Sweep 1.0 Mc to 25.0 Mc in 27 seconds.

Characteristic : h'F

Unit : Km.

Month : June 1958

TABLE 63—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	220	260	365	400	300	280	245	240	A	220	220H	215H
2	360F	345	U360F	320	265	270F	250	240	220	210	220H	210H
3	315	315	275	240	220	260	250	240	230	225	215H	215H
4	320	U345F	U345F	U295F	220	260	255	245	230	215	215	210H
5	280	300	300	265	C	265	250	240	230	215H	215H	205H
6	340	360	300	255	220	255	245	235	225	215	B	215H
7	375	370	300	230	220	275	245	230	220	A	220	210
8	400	420	400	360	300	280	240	C	225	220	210	200H
9	360	400	400	340	240	240	250	240	220	210H	200H	200H
10	360	340	250	220	220	245	245	240	235	215H	205H	200H
11	315	320	260	230	225	265	250	245	230	220H	220	215
12	U400F	395	330	270	245	260	250	240H	220	U200L	210	200
13	345	370	345	280	240	260	250	235	220	220	220	205
14	380	360	325	280	230	250	250	230	215	200	200	200
15	U360F	300	270	260	220	270	250	240	230	215	210	200
16	380	360	310	240	220	260	240	230	220	210	200H	C
17	305	300	305	280	230	260	240	230	220	C	220	200
18	310	260	240	240	220	250	240	220	220	C	C	C
19	320	300	300	280	240	260	240	U245B	220	220	205	200
20	U340F	U330F	U330F	U340F	260	270	245	235	220	200	200	200H
21	U470F	365	300	235	220	270	245	225H	230	200H	210H	210H
22	U460A	425	380	295	255	300	260	240	230	215	220	205H
23	U480F	F	U350F	240	235	260	245	235	220	210	205H	210
24	330	320	305F	280	235	260	245	230	225	210	215H	210
25	280	275	280	240	240	280	255	240	215	225	215	205H
26	375	435	450F	320	250	260	250	240	B	240	235	215
27	355	345	340	275	220	255	260	245	220	210	210	200
28	360	320	240	225	220	270	260	240	220	205	205	200
29	460	350F	270	240	235	270	260	A	C	225	215	A
30	300	270	250	240	240	300	260	245	240	215	210	215
Mean	355	340	315	275	235	265	250	235	225	215	210	210
Median	360	345	305	270	235	260	250	240	220	215	210	205
Count	30	29	30	30	29	30	30	28	27	27	28	27

Sweep 1.0 Mc. to 25.0 Mc in 27 seconds.

Characteristic : h'F

Unit : Km

Month : June 1958

TABLE 63—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
215	215H	225H	230H	250	280	320	U395F	F	U410F	370	355	1
215H	205	220	240	245	270	320	440	U440F	U410F	375	330	2
215H	215	220	230H	240	280	320	F	F	U380F	U360F	U325F	3
210	215	215	225	240	275	330	U420F	F	F	320	U280F	4
200	230H	B	225	240	250	270	325	420	U450F	U425F	340	5
200H	205H	210	220H	240H	260	340	420	F	400	360	340	6
220	220	220	240	250	290	345H	440	420	F	380	380	7
200H	200H	235	230	240H	265	325	460	440	455	400	390	8
205H	205H	220	240	245	280	340	500	F	500	460	420	9
215H	210H	200H	225	240	270	335	F	500	440	370	340	10
210	220	220	225	A	270	325	F	F	U420F	F	U400F	11
U225A	220	200H	240	A	280	320	400	430F	395	380	380	12
200	210	215	230	240	280	320	F	U425F	U410F	405F	395	13
210	200H	200H	220	A	A	320	400F	F	F	F	U380F	14
210H	200	200H	235	250	270	320	F	F	F	400	380	15
200H	C	C	C	240	260	320	U400F	F	U380F	340	310	16
200	210	C	C	240	260	300	400	U420F	U440	U420F	U380F	17
C	C	C	210H	240	260	305	F	410F	U420F	U380F	360F	18
200	210	210	A	A	280	320	420	440	420	340	360	19
200H	205H	210	220	220	260	310	F	F	F	U500F	U420F	20
220	230	230	230	245	U285A	300	345	U360F	380	345	405	21
210	210	220	230	240	270	310	U360F	U440F	F	F	F	22
210H	200H	220	220	235	270	305	420	F	U420F	U425F	360	23
205	210	215	220	U255A	U305A	310	U405F	F	320	290	290	24
200H	210H	C	225	240	270	310	400	F	F	U395F	360	25
215	210	220	220	240	275	320	400	F	420	360F	380	26
205	A	240	A	240	275	320	410	440	460F	425	400	27
200	220	240	230	255	280	325	F	320F	F	480F	480F	28
A	230	235	A	250	295	345	390	430	450	400	340	29
220	C	220	A	240	260	310	400	380F	410F	F	410	30
210	210	220	230	240	275	320	405	420	420	390	370	Mean
210	210	220	230	240	270	320	400	430	420	380	380	Median
28	26	25	24	26	29	30	22	16	22	26	29	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : June 1958

TABLE 64
Ionospheric Data
75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	130	110	110H	110	A	A
2	115H	110	A	A	A	A
3	115H	110	A	B	A	A
4	A	A	A	A	A
5	120	105	A	A	105
6	130H	105	105	C	B	B
7	125H	110H	115H	115	A	A
8	105	105	A	A	A
9	C	A	A	A	A	A
10	110	105	110	A	A	B
11	115H	105	100	A	A	B
12	120H	115H	110	A	A	A
13	110	105	A	A	A
14	120	110	110	105	A	A
15	115	115H	A	A	C	A
16	120	110	110	A	A	A
17	120	105	A	C	C	A
18	120	105	A	A	C	A
19	110	A	110	110	A
20	120	110	110	A	A	A
21	110	110	105	A	A
22	120	115	115	110	A	A
23	110	105	A	A	A
24	115	A	A	A	A	A
25	110	105	110	A	A
26	120	115	B	B	B	B
27	A	110	110	A	110
28	110	110	110	A	A
29	110	110	110	110	110
30	115	110	110	110	A	A
Mean	120	110	110	110	..	..
Median	120	110	110	110	..	..
Count	18	26	20	11	2	3

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : June 1958

TABLE 64

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	115	120	..	..	..	..	..	..	1
A	110	A	105	A	110	..	..	..	..	..	..	2
A	A	A	110	110	A	..	..	..	..	..	..	3
A	A	105	A	110	115	..	..	..	..	..	..	4
A	A	B	105	A	120	..	..	..	..	..	..	5
A	A	A	A	A	A	..	..	..	..	..	..	6
A	A	A	B	120	A	..	..	..	..	..	..	7
A	A	A	105	110	110	..	..	..	..	..	..	8
A	A	105	105	105	105	..	..	..	..	..	..	9
A	A	A	A	A	110	..	..	..	..	..	..	10
A	A	A	A	A	A	..	..	..	..	..	..	11
A	A	A	A	115	115	..	..	..	..	..	..	12
A	A	A	A	120	120	..	..	..	..	..	..	13
A	A	110	110	105	A	..	..	..	..	..	..	14
A	115	120	115	120	125H	..	..	..	..	..	..	15
A	C	C	C	110	A	..	..	..	..	..	..	16
A	A	C	C	115	A	..	..	..	..	..	..	17
A	C	C	C	B	A	..	..	..	..	..	..	18
A	A	110	C	A	A	..	..	..	..	..	..	19
A	110	110	A	115	120	..	..	..	..	..	..	20
A	A	A	105	A	A	..	..	..	..	..	..	21
A	A	110	105	A	110	..	..	..	..	..	..	22
A	B	A	A	110	115	..	..	..	..	..	..	23
A	A	A	A	105	A	..	..	..	..	..	..	24
A	A	A	C	110	110	125	..	..	..	..	..	25
110	B	110	115	120	120	..	..	..	..	..	..	26
110	110	A	110	A	A	A	..	..	..	..	..	27
110	A	A	110	110	A	..	..	..	..	..	..	28
A	A	110	110	110	A	..	..	..	..	..	..	29
A	C	110	A	A	..	..	..	..	..	..	..	30
..	..	110	110	110	115	..	..	..	..	..	..	Mean
..	..	110	110	110	115	..	..	..	..	..	..	Median
3	4	10	13	18	15	1	..	..	..	..	..	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h' E

TABLE 64—contd.

Latitude : 10° 2' N

Unit : Km.

Ionospheric Data

Longitude : 77° 5' E

Month : June 1958

75° 0' E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							120	105	110	A	A	A
2							A	110	A	A	A	A
3							110H	110	105	A	A	A
4							..	110	A	A	A	A
5							115	105	A	A	A	A
6							120	105	A	A	B	B
7							115H	120	115	115	A	A
8							110	C	105	A	A	A
9							115	A	105	A	A	A
10							110	110	115	A	A	A
11							110H	100	A	A	A	A
12							115H	105	A	A	A	A
13							115	105	105	A	A	A
14							110	105	110	105	A	A
15							110	110	A	A	A	A
16							120	110	110	A	A	C
17							110	A	A	C	A	C
18							110	105	A	C	A	C
19							110	B	110	110	A	A
20							110	110	110	A	A	A
21							110	110	A	A	A	A
22							110	115	A	A	110	A
23							115	110	A	A	A	A
24							A	A	A	A	A	A
25							120	110	105	A	A	A
26							115	110	B	B	B	110
27							A	A	110	110	A	110
28							A	110	105	105	A	A
29							110	110	C	110	110	110
30							110	110	105	A	A	A
Mean							115	110	110	110	..	..
Median							110	110	110	110	..	..
Count							25	24	15	6	2	3

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h' E

Unit : Km

Month : June 1958

TABLE 64—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	110	A	120								1
A	110	105	105	105	A							2
A	A	110	A	115	A							3
A	A	A	110	110	..							4
A	A	110	A	120	..							5
A	A	A	110	A	..							6
A	A	A	B	120	A							7
A	A	A	110	110	115							8
A	A	105	B	110	A							9
A	A	A	105	105	A							10
A	A	A	A	A	A							11
A	A	A	110	115	A							12
A	A	A	115	100	..							13
A	A	A	115	A	A							14
A	115	115	B	125	..							15
A	C	C	C	A	A							16
A	A	C	C	A	..							17
A	C	C	105	A	..							18
A	A	A	A	A	..							19
A	110	A	B	110	120							20
A	A	A	A	A	A							21
A	110	A	A	A	F							22
A	A	A	A	110	A							23
A	A	A	110	A	..							24
A	A	C	110	110	120							25
A	A	115	115	110	..							26
110	105	A	A	A	..							27
110	A	110	110	A	..							28
110	105	110	110	A	..							29
A	C	110	A	A	..							30
..	110	110	110	110	..							Mean
..	110	110	110	110	..							Median
3	6	11	14	16	3							Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'E_s

Unit : Km

Month : June 1958

TABLE 65

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	..	..	..	..	..	..	105	G	G	120	100	100
2	..	110	..	..	..	..	115	105	100	100	100	100
3	..	..	..	..	..	..	G	115	100	100	100	100
4	110	..	..	..	..	..	..	100	105	100	100	100
5	..	..	..	..	..	..	..	G	100	100	100	100
6	105	110	105	..	..	..	G	G	100	C	B	100
7	95	..	110	..	..	..	110	G	G	G	100	100
8	..	120	110	105	..	..	..	100	100	100	100	100
9	..	..	..	..	..	..	C	100	100	100	100	100
10	..	..	..	..	..	..	G	100	G	105	100	100
11	..	..	..	..	..	..	G	100	100	100	100	100
12	..	110	..	..	..	..	G	100	100	100	100	100
13	..	115	..	..	..	..	..	105	100	100	100	100
14	..	110	..	..	..	..	G	100	100	100	100	100
15	..	..	..	..	..	..	105	100	100	100	C	100
16	..	..	..	..	..	..	G	100	100	100	100	C
17	..	..	..	..	..	..	G	100	100	C	C	100
18	120	..	..	..	..	..	G	100	100	100	C	C
19	..	110	105	..	..	..	..	100	100	100	100	100
20	..	110	120	..	..	..	G	140	140	100	100	100
21	120	110	..	..	..	..	..	100	G	100	100	105
22	..	115	115	..	..	..	G	G	G	100	100	100
23	120	..	..	..	..	..	110	115	100	100	100	100
24	115	..	110	125	110	..	105	105	100	100	100	100
25	120	..	..	..	..	..	120	100	100	100	100	100
26	100	..	..	..	..	..	G	G	G	100	100	100
27	..	..	..	..	..	..	..	110	100	100	100	100
28	..	120	..	..	..	..	105	105	100	100	100	100
29	..	..	..	..	..	..	..	100	100	105	100	100
30	..	..	..	..	..	..	G	100	100	100	100	100
Mean	110	115	110	..	..	..	110	105	100	100	100	100
Median	115	110	110	..	..	..	110	100	100	100	100	100
Count	9	11	7	2	1	..	8	24	24	27	26	28

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : June 1958

TABLE 65

Ionospheric Data

75.0°E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	105	110	..	..	..	..	..	115	1
100	100	100	100	105	105	..	..	..	..	..	..	2
100	100	100	100	105	100	105	..	..	..	..	..	3
100	100	100	100	105	105	..	..	..	105	..	..	4
100	100	100	100	105	105	110	..	..	..	..	..	5
100	100	100	100	100	105	..	..	..	..	110	..	6
100	100	100	G	G	125	..	..	..	..	120	..	7
100	100	100	100	100	105	..	..	..	..	120	..	8
100	100	100	100	100	100	140	..	..	..	115	..	9
100	100	100	100	100	105	110	..	..	..	..	..	10
100	100	100	100	100	100	100	..	..	..	..	..	11
100	100	100	100	110	110	115	..	115	100	110	100	12
100	100	100	100	G	100	..	..	..	..	..	..	13
100	100	100	100	100	100	100	..	..	..	120	..	14
100	G	G	G	G	G	..	..	..	..	..	..	15
100	C	C	C	100	105	..	..	..	..	..	..	16
100	100	C	C	G	100	100	..	..	..	..	C	17
C	C	C	C	G	100	100	..	..	120	110	110	18
100	100	100	C	100	100	100	100	..	120	..	..	19
100	100	100	100	G	100	..	..	..	..	..	..	20
100	100	100	140	100	100	100	100	100	..	115	..	21
100	100	100	100	100	105	..	..	..	..	..	110	22
100	100	100	100	100	105	105	..	..	..	..	..	23
100	100	100	100	100	100	105	105	100	..	115	110	24
100	100	100	C	100	105	G	..	..	..	125	115	25
100	100	100	100	100	110	100	..	..	..	120	120	26
100	100	100	100	100	100	100	110	..	100	100	100	27
100	100	100	100	100	100	..	..	..	..	115	..	28
100	100	100	100	100	100	105	..	..	..	..	..	29
100	C	100	100	100	100	110	115	..	120	120	125	30
100	100	100	100	100	105	105	105	..	110	115	110	Mean
100	100	100	100	100	100	100	105	..	110	115	110	Median
29	26	26	23	24	29	16	5	3	6	14	9	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : June 1958

TABLE 65—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	..	..	..	..	..	..	G	100	115	100	100	100
2	..	..	..	..	..	..	105	G	100	100	100	100
3	..	..	..	..	..	..	G	100	100	100	100	100
4	110	..	..	..	..	..	..	100	100	100	100	100
5	..	..	..	..	G	..	G	100	100	100	100	100
6	115	110	..	..	..	..	G	G	100	100	100	100
7	..	..	..	..	..	..	G	G	G	130	100	100
8	..	115	110	105	..	..	100	C	100	100	100	100
9	..	..	115	..	..	..	G	100	100	100	100	100
10	115	..	..	..	..	..	G	G	G	100	100	100
11	..	..	..	..	..	..	120	100	100	100	100	100
12	..	110	..	..	..	..	G	100	100	100	100	100
13	..	110	120	..	..	..	110	100	100	100	100	100
14	..	..	..	..	..	..	G	100	100	100	100	100
15	..	..	..	..	..	..	105	100	100	100	100	100
16	..	..	..	..	..	..	100	100	100	100	100	G
17	..	..	..	..	..	..	G	100	100	C	100	100
18	..	..	..	..	..	..	G	100	100	C	C	C
19	110	..	..	..	..	..	G	100	100	100	100	100
20	110	120	110	..	..	..	105	140	100	100	100	100
21	..	110	..	..	..	..	G	G	100	100	100	100
22	110	..	115	..	..	..	100	105	100	100	100	100
23	..	..	..	..	..	125	115	G	100	100	100	100
24	125	..	110	110	..	..	105	100	100	100	100	100
25	115	..	..	..	..	..	105	100	100	100	100	100
26	100	..	..	..	..	..	G	G	100	100	100	100
27	..	120	..	..	..	..	105	110	100	100	100	100
28	..	115	..	..	..	..	110	100	100	100	100	100
29	115	..	..	..	..	..	G	100	C	100	100	105
30	..	..	..	..	..	..	105	100	100	100	100	100
Mean	110	115	115	..	..	..	105	100	100	100	100	100
Median	110	110	110	..	..	..	105	100	100	100	100	100
Count	10	8	6	2	..	1	14	22	27	28	29	28

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : June 1958

TABLE 65—*contd.*

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	105	105	..	..	..	..	120	..	115	1
100	100	100	100	105	105	100	..	..	120	..	120	2
100	100	100	105	100	100	..	..	..	..	..	..	3
100	100	100	105	105	115	..	..	..	..	..	..	4
100	100	100	100	105	100	..	..	..	..	..	..	5
100	100	100	100	110	..	100	..	..	100	110	..	6
100	100	100	G	G	100	..	..	..	..	..	120	7
100	100	100	100	100	105	..	..	..	120	120	..	8
100	100	100	100	G	100	..	..	..	120	115	..	9
100	100	100	100	100	105	..	..	..	..	..	..	10
100	100	100	100	100	100	100	..	..	..	..	..	11
100	100	100	105	110	110	115	110	105	105	110	..	12
100	100	100	100	G	115	..	..	..	..	..	..	13
100	100	100	100	100	100	..	..	..	120	120	..	14
100	G	G	B	G	..	..	..	..	..	..	..	15
100	C	C	C	105	105	..	..	..	..	..	..	16
100	100	C	C	100	100	100	..	..	..	..	120	17
C	C	C	G	100	110	..	..	..	..	..	120	18
100	100	100	100	100	100	100	..	..	115	..	120	19
100	100	100	100	100	100	..	..	..	..	..	120	20
100	100	105	100	100	100	100	100	115	..	..	..	21
100	100	100	100	100	105	..	..	..	120	..	120	22
100	100	100	100	105	95	..	..	..	..	115	..	23
100	100	100	100	100	100	140	100	100	..	115	120	24
100	100	C	100	105	110	..	..	..	..	120	120	25
100	100	100	100	100	125	100	..	..	120	..	..	26
100	100	100	100	100	100	100	..	..	100	120	..	27
100	100	100	100	100	100	..	..	..	..	120	..	28
100	100	100	100	110	100	105	..	..	..	..	..	29
100	C	100	100	100	100	110	..	..	..	120	115	30
100	100	100	100	100	105	105	..	..	115	115	120	Mean
100	100	100	100	100	100	100	..	..	120	120	120	Median
29	26	25	25	26	27	12	3	3	11	11	11	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

TABLE 66

Latitude : 10°2' N

Unit : —

Ionospheric Data

Longitude : 77°5' E

Month : June 1958

75°0'E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	3.15	2.95	U2.50S	U2.55S	2.65	U2.25FH	2.90	2.95	2.55H	2.50	2.30	2.00
2	F	2.40F	U2.40F	F	F	U3.00F	2.85	2.45H	2.55	2.20	2.10	2.15
3	2.55	2.60F	2.70F	2.85F	3.10F	3.05	2.95	2.80	2.60	2.35	2.15	2.10
4	U2.65F	F	F	F	F	F	3.00F	2.70	2.45	2.15	2.20	2.10
5	2.50	2.55	2.55	U2.65F	F	F	3.00F	2.90	2.65	2.30	2.05	2.15
6	F	F	F	F	F	3.10	2.90	2.80	2.55	C	2.20	2.05
7	F	F	F	U2.95F	3.25	3.10	2.90	2.80	2.85	2.75	2.50	2.20
8	F	F	U2.25F	F	F	F	U2.90S	2.80	2.60	2.30	2.00	2.10
9	F	F	F	F	F	3.20	C	3.00	2.70	2.35	U2.00R	2.05
10	F	F	2.70F	3.10	3.20	3.30	3.25	3.00	2.75	2.60	2.35	2.10
11	FS	2.45	U2.70F	U2.90F	3.00	U2.90S	2.95	3.00	2.70	2.40	2.30	2.15
12	F	FS	FS	FS	2.90	U3.00S	2.90	2.70	2.45	U2.15R	2.10	2.15
13	2.35	U2.50F	F	F	U2.90F	3.10	2.90	2.70	U2.35R	2.20	2.20	2.20
14	F	F	F	F	F	3.30	U2.95S	2.70	2.45	2.15	2.10	2.05
15	F	F	F	F	3.15	3.35	2.95	2.70	2.45	J2.00R	C	2.15
16	U2.35S	2.40	2.60	2.75	U3.30S	3.40	3.05	J2.75R	2.45	2.35	2.30	2.25
17	F	U2.85F	2.75	2.75	2.90	3.20	3.05	2.75	U2.50R	C	C	2.25
18	F	F	F	U3.05F	3.15	3.35	3.15	2.90	2.60	2.35	C	C
19	F	F	2.80	U2.85S	3.05	3.20	3.00	2.90	2.60	2.30	2.20	2.20
20	F	F	F	F	F	F	U2.95F	2.80	2.70	2.45	2.20	2.10
21	F	F	F	F	F	3.20	2.45	2.85	2.50	2.15	2.30	2.40
22	2.25	2.25	2.35	2.55	3.10	2.25H	2.65	2.60	2.65	2.35	2.10	2.30
23	F	F	F	F	J3.15F	3.20	3.20	3.05	2.75	2.25H	2.20	2.30
24	F	F	F	F	J3.15F	3.15F	2.95	2.75	2.35	2.30	2.15	2.20
25	U2.70S	2.70	2.75	U2.95S	U3.10R	3.05	2.85	2.60	2.45	2.30	2.25	2.20
26	F	F	F	F	F	3.10	3.00	2.85	2.70	2.40	U2.10R	2.05
27	U2.35F	F	F	F	3.00	3.15	3.00	2.90	2.55	2.20	2.10	2.10
28	F	F	F	3.15	U3.05S	3.05	2.90	2.55	2.50	2.30	2.25	2.15
29	F	F	F	F	2.95	U3.25S	2.90	2.90	2.70	2.50	2.35	2.10
30	2.30	2.55	2.65	2.90	2.95	2.90	2.70	2.70	2.55	2.30	2.15	2.10
Mean	2.50	2.55	2.60	2.85	3.05	3.10	2.95	2.80	2.55	2.30	2.20	2.15
Median	2.40	2.55	2.65	2.90	3.10	3.10	2.95	2.80	2.55	2.30	2.20	2.15
Count	10	11	13	14	20	26	29	30	30	28	27	29

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

Unit : —

Month : June 1958

TABLE 66
Ionospheric Data
75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
2.10	2.10	2.10	2.05	2.10	2.25	2.30	2.25	2.15	2.20	2.30	U2.45F	1
2.05	2.00	2.05	2.05	2.05	2.10	U2.15S	2.10	2.05	2.10	U2.30F	2.40	2
2.10	2.15	2.10	2.10	2.15	2.20	U2.25S	2.15F	U2.05F	F	F	F	3
2.05	2.05	2.00	2.00	U2.05R	2.05	U2.10S	2.15	U2.10F	F	2.30F	F	4
2.05H	2.00	2.05	2.10	2.15	U2.25S	2.15H	2.05	U2.05S	F	F	U2.20F	5
2.05	2.00	2.05	2.10	2.15	2.15	2.20	2.05	U2.05F	F	U2.30F	U2.40F	6
2.00	2.00	2.00	2.10	2.25	2.30	2.20	2.05	2.00F	F	F	F	7
2.10	2.10	2.10	2.05	2.05	U2.10S	U2.15S	U2.05S	F	2.10	F	F	8
2.05	2.10	2.10	2.10	2.15	2.15	U2.05S	S	F	F	F	F	9
1.90H	2.00	1.95	2.00	2.10	2.10	2.20	U2.10S	F	F	F	F	10
2.10	2.05	2.10	2.15	2.15	2.30	2.30	U2.20S	U2.05FS	F	F	F	11
2.15H	2.10	2.00	2.05	2.10	2.15	U2.10S	2.15	2.05	2.20F	U2.20S	U2.30S	12
2.10	2.20	2.20	2.25	2.25	2.30	2.25	U2.15RS	U2.10FS	U2.25FS	F	F	13
2.10	2.10	U2.15R	2.20	2.35	2.40	2.35	J2.35R	2.15	F	F	F	14
2.20	J2.25R	2.35	2.40	2.50	2.55	2.45	U2.30S	2.25F	U2.15F	F	J2.35S	15
2.15	C	C	C	2.35	2.40	2.40	F	F	F	F	F	16
2.20	2.15	C	C	2.25	2.35	2.35	2.30	U2.25F	U2.20F	F	C	17
C	C	C	C	2.45	2.55	2.50	2.30	U2.25F	F	F	F	18
2.10	2.20	2.10	C	2.30	2.45	U2.40S	J2.25R	2.20	U2.25F	F	F	19
2.15	2.20	2.35	2.35	2.40	2.35	U2.35S	F	F	F	F	F	20
2.30	2.25	2.10	2.10	2.20	2.20	J2.40S	2.35	2.40	2.35	2.35	2.45	21
2.30	2.25	2.20	2.15	U2.15R	2.00	2.15	2.20	F	F	F	F	22
2.25	2.15	2.00	2.10	2.15	2.30	2.25	2.15	U2.05F	F	F	F	23
2.15	2.10	2.15	2.15	2.15	2.20	2.20	2.10	U2.10F	2.30	U2.60S	2.55	24
2.15	2.10	2.00	C	2.10	2.10	2.20	2.20	2.10	F	F	F	25
2.10	2.10	2.10	2.05	2.10	2.10	U2.30S	U2.20S	2.20	2.10	F	F	26
2.15	2.10	2.05	2.10	2.10	2.15	2.10	2.10	2.05	F	U2.20F	F	27
2.10	2.00	2.10	2.10	2.10	2.15	2.15	2.10	F	U2.00F	F	F	28
2.05	2.05	2.05	1.95	2.00	2.00	2.00	2.05	2.05	2.00	U1.95W	U1.95F	29
2.10	C	2.05	2.10	2.30	2.40	2.40	U2.25S	2.20	U2.15F	F	F	30
2.10	2.10	2.10	2.10	2.20	2.25	2.25	2.15	2.15	2.15	U2.30	U2.35	Mean
2.10	2.10	2.10	2.10	2.15	2.20	2.20	2.15	2.10	2.20	U2.30	U2.40	Median
29	27	27	25	30	30	30	27	23	14	9	9	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

Unit : —

Month : June 1958

TABLE 66—contd.

Ionospheric Data

75°0'E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	U3.20S	U2.60S	U2.25S	2.40F	2.80	2.75	2.95	2.80	2.50	2.40	2.10	U1.95W
2	U2.40F	U2.45F	F	F	F	3.00	2.70	2.60	2.40	2.10	2.15	2.10
3	2.60	2.65F	2.75F	U3.05F	3.05	3.00	2.85	2.65	2.40	2.20	2.10	2.10
4	F	F	F	F	F	U3.05F	2.85F	2.60	2.30	2.10	2.10	2.05
5	2.55	2.60	2.65	F	C	3.05F	3.00	2.70	2.45	2.10	2.15	2.10
6	F	F	F	F	3.00	2.85	2.90	2.65	2.40	2.20	2.15	2.10
7	F	F	F	3.10	3.15	2.85	2.80	2.90	2.75	2.65	2.40	2.10
8	F	U2.25F	F	F	F	2.80F	2.90	C	2.45	2.15	2.05	2.00
9	F	F	F	F	F	3.10	3.10	2.90	2.60	2.15	2.15	2.05
10	F	F	3.00	3.20	3.15	3.15	3.05	2.75	2.65	2.50	2.20	2.00
11	2.45	2.50	U2.80FS	3.00	3.00	2.95	3.00	2.95	2.55	2.35	2.25	2.15
12	F	F	FS	FS	2.90	3.10	U2.75S	2.55	2.25	2.10	2.10	2.15H
13	2.40	F	F	FS	3.10	3.00	2.85	2.50	U2.15R	2.20	2.20	2.15
14	F	F	F	F	U3.15F	3.05	2.90	2.65	2.30	2.10	2.10	2.10
15	F	F	F	U3.05F	3.30	3.00	U2.85S	2.60	2.15	2.25	2.20	2.15
16	2.40	2.50	2.65	3.05	3.35	3.05	2.90	2.65	2.35	2.25	2.30	C
17	U2.80F	U2.70F	2.70	2.80	3.15	3.05	2.90	2.60	2.40	C	2.30	2.25
18	F	F	F	3.15	3.20	U3.20R	3.05	2.75	2.45	C	C	C
19	F	U2.75F	2.85	U2.95S	U3.30S	3.05	2.90	2.80	2.45	2.20	2.30	2.15
20	F	F	F	F	F	U3.10F	2.90	2.80	2.55	2.35	2.15	2.10
21	F	F	F	F	3.25	3.00	2.90	2.70	2.30	2.15	2.35	2.40
22	2.25	2.35	2.55	2.85	3.35	2.65	2.65	2.60	2.50	J2.25R	2.25	2.30
23	F	F	F	F	3.20	3.00	3.15	2.95	2.45H	2.30H	2.20	2.25
24	F	F	F	F	F	3.05	2.85	2.55	2.30	2.20	2.10	2.20
25	2.70	U2.80S	2.80	3.00	3.05	2.90	2.75	2.55	2.35	2.20	2.25	2.25
26	F	F	F	F	U2.80F	2.90	3.00	U2.75S	2.55	2.25	2.05	2.10
27	F	F	F	F	3.05	3.00	2.95	2.70	2.35	2.15	2.15	2.15
28	F	F	F	3.25	U3.20S	2.80	2.75	2.45	2.30	2.30	2.20	2.15
29	F	F	F	U2.90F	U3.10S	2.70	2.90	2.80	C	2.45	2.20	2.05
30	2.45	2.75	U2.80S	2.90	3.05	2.70	U2.70S	2.65	2.45	2.15	2.10	2.15
Mean	2.55	2.60	2.70	3.00	3.10	2.95	2.90	2.70	2.40	2.25	2.20	2.15
Median	2.45	2.60	2.75	3.00	3.15	3.00	2.90	2.65	2.40	2.20	2.15	2.10
Count	11	12	11	15	23	30	30	29	29	28	29	28

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

Characteristic : (M3000)F2

TABLE 66—contd.

Latitude : 10.2° N

Unit : —

Ionospheric Data

Longitude : 77.5° E

Month : June 1958

75.0° E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2.10	2.10	2.05	2.05	2.15	2.30	2.25	U2.25R	2.20	2.25	2.35	F	1
2.00	2.05	2.05	2.05	2.05	U2.15S	U2.25S	2.05	2.10	2.20	U2.35F	2.50	2
2.10	2.10	2.15	2.10	2.15	2.25	U2.15S	U2.05F	F	F	F	F	3
2.05	2.00	2.00	2.00	2.10	2.05	U2.15S	2.05	F	2.20F	2.30	U2.50F	4
2.05	2.05	2.05	2.10	2.20	U2.20H	U2.10R	2.05	U2.05F	F	F	F	5
2.00	2.00	2.05	2.10	2.15	2.15	2.10	2.00	F	F	U2.35F	F	6
2.00	1.95	2.00	2.15	2.30	2.25	2.15	2.05	2.05	F	U2.20F	F	7
2.05	2.05	2.05	2.05	2.00	U2.10S	U2.10S	2.00	U2.05F	F	F	F	8
2.05	2.10	2.10	2.10	2.15	2.10	S	F	F	F	F	F	9
U1.85W	1.95	2.00	2.10	2.10	2.20	2.10	F	U2.00F	F	F	FS	10
2.05	2.05	2.10	2.15	2.20	2.30	2.25	2.15	F	F	F	F	11
2.20	2.00	2.00	2.05	2.10	U2.20S	U2.15S	2.15	2.10	U2.20S	2.35	2.35	12
2.15	2.20	2.20	2.25	2.30	2.25	J2.25S	U2.05FS	FS	F	F	F	13
2.10	2.15	2.20	2.30	2.35	U2.45R	2.35	2.20	FS	F	F	F	14
2.25	2.30	2.40	2.45	2.55	2.55	2.45	2.20	2.15	F	U2.30S	2.40	15
2.15	C	C	C	2.40	2.45	U2.30S	F	F	F	F	F	16
2.20	2.15	C	C	2.30	2.40	2.35	U2.25S	2.20	F	F	F	17
C	C	C	2.45	2.50	2.55	J2.40R	U2.20F	U2.20F	F	F	F	18
2.10	2.15	2.15	2.20	U2.35S	2.40	2.35	2.15	2.15	F	F	F	19
2.15	2.30	2.35	2.40	U2.40S	2.40	2.20H	F	F	F	F	F	20
2.25	2.15	2.10	2.25	2.20	2.30	2.35	U2.40S	2.35	2.35	J2.45S	2.20	21
2.35	2.25	2.20	U2.15R	2.05	2.00	2.20	U2.05S	F	F	F	F	22
2.20	2.05	2.00	2.10	2.25	U2.30S	2.25	2.15	U2.15F	F	F	F	23
2.10	2.10	2.20	2.15	2.25	2.20	U2.20S	2.05	J2.15R	U2.55S	2.65	2.65	24
2.10	2.05	C	2.05	2.10	2.15	2.25	2.15	2.10	F	F	F	25
2.15	2.10	2.10	2.05	2.00	2.10	U2.15S	U2.15S	2.10	2.15	F	2.30	26
2.15	2.10	2.10	2.10	2.10	2.15	2.15	2.05	2.05F	F	F	F	27
2.00	2.05	2.10	2.10	2.15	2.15	U2.15S	U2.05S	2.00	F	F	F	28
2.05	2.05	2.00	2.00	2.05	2.00	U2.10S	2.05	2.00	U1.90W	U1.95W	2.15	29
2.05	C	2.10	2.20	2.35	2.40	2.35	U2.20R	2.15	F	F	F	30
2.10	2.10	2.10	2.15	2.20	2.25	2.20	2.10	2.10	2.20	2.30	2.40	Mean
2.10	2.10	2.10	2.10	2.20	2.20	2.20	2.10	2.10	2.20	2.30	2.40	Median
29	27	26	28	30	30	29	26	20	8	10	8	Count

Sweep 1.0 Mc. to 25.0 Mc. in 27 seconds.

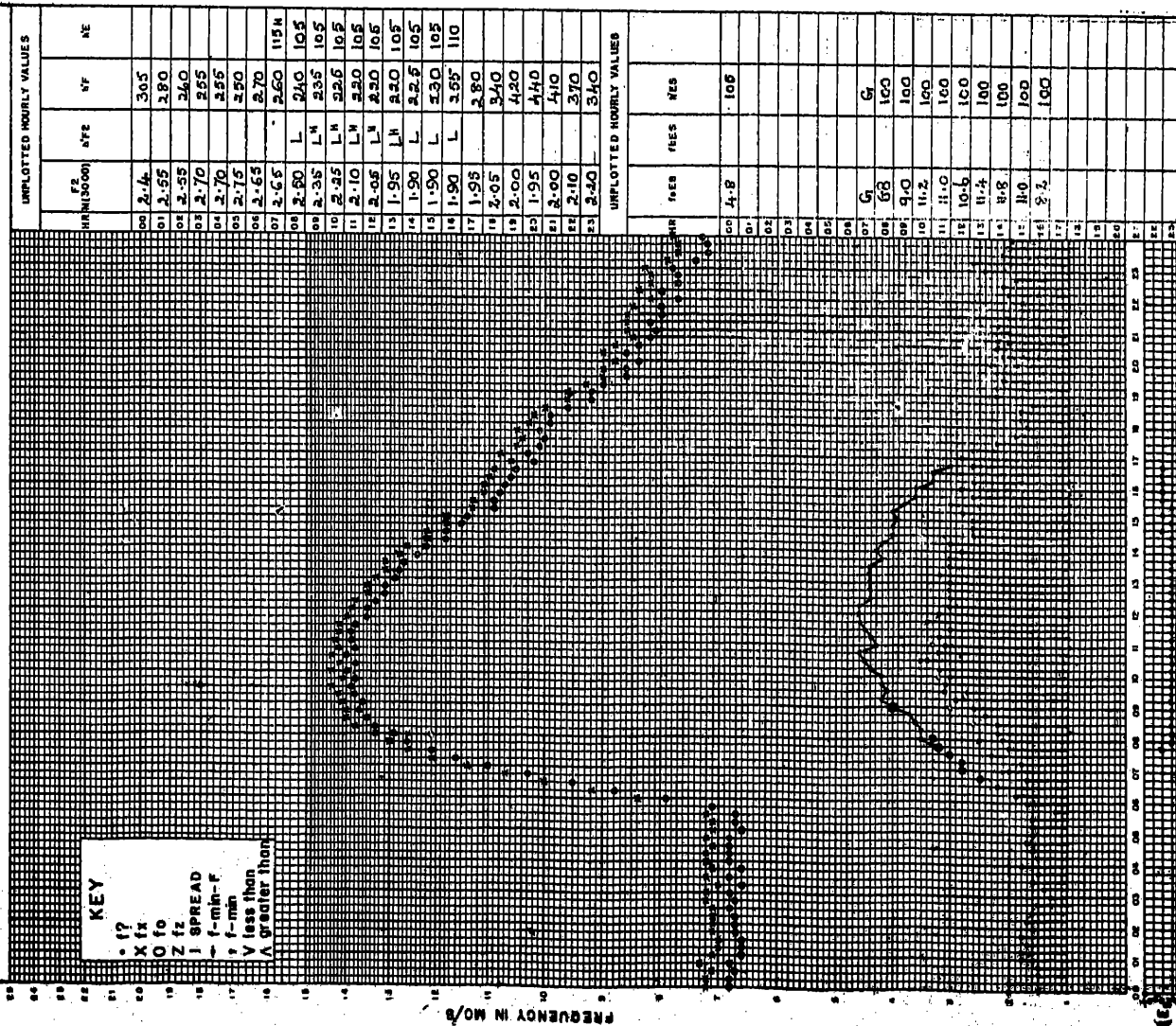
f-PLOT OF IONOSPHERIC DATA

DATE 3-1-58 RWD

STATION KODAIKANAL

MERIDIAN TIME 75°0 E.

SCALED BY



FREQUENCY IN MHz

TIME

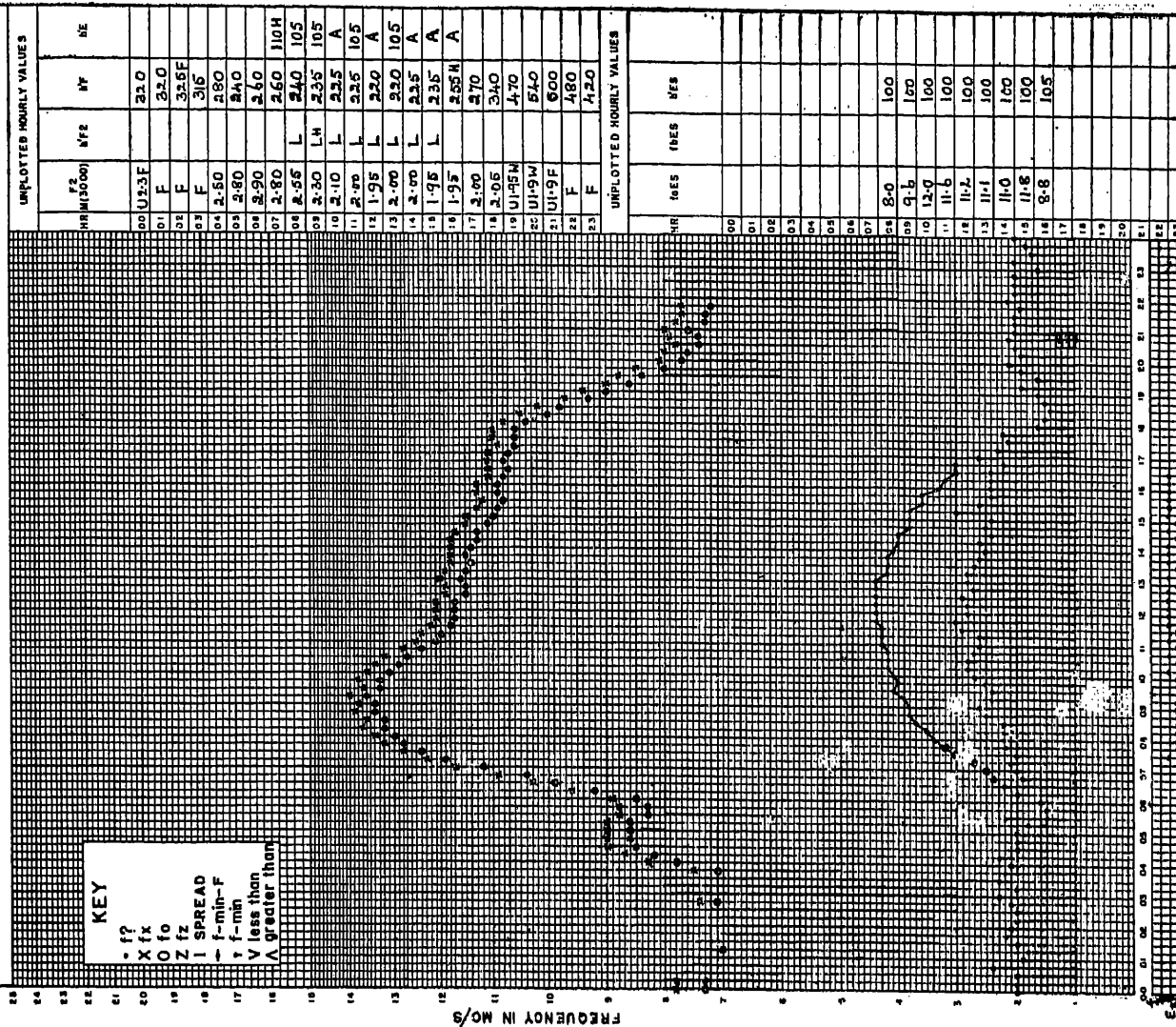
f-PLOT OF IONOSPHERIC DATA

DATE 4-1-58 RWD

STATION KODAIKANAL

MERIDIAN TIME 75°0 E.

SCALED BY



FREQUENCY IN MHz

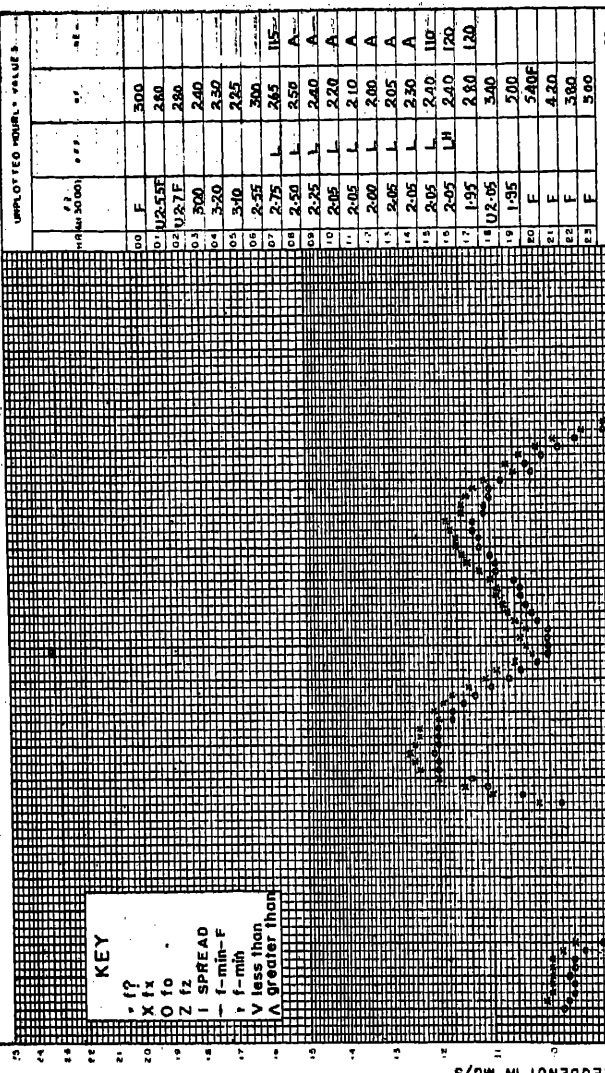
TIME

f-PLOT OF IONOSPHERIC DATA

STATION KODAIKANAL
MERIDIAN TIME 75°0E

DATE 20.1.58. R.W.D.
SCALED BY

KEY
f_oF
X f_oF
O f_oF
Z f_oF
I SPREAD
f_{min}-F
f_{min}
V less than
A greater than



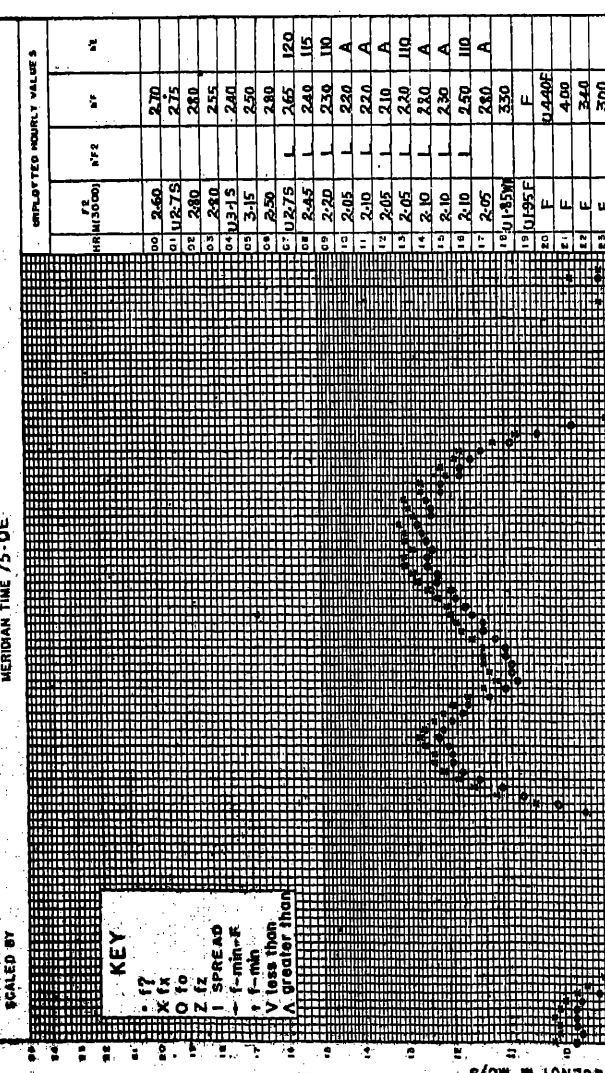
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01	2.55					
02	2.75					
03	2.80					
04	2.80					
05	2.80					
06	2.80					
07	2.80					
08	2.80					
09	2.80					
10	2.80					
11	2.80					
12	2.80					
13	2.80					
14	2.80					
15	2.80					
16	2.80					
17	2.80					
18	2.80					
19	2.80					
20	2.80					
21	2.80					
22	2.80					
23	2.80					
24	2.80					

f-PLOT OF IONOSPHERIC DATA

STATION KODAIKANAL
MERIDIAN TIME 75°0E

DATE 19.1.58. R.W.D.
SCALED BY

KEY
f_oF
X f_oF
O f_oF
Z f_oF
I SPREAD
f_{min}-F
f_{min}
V less than
A greater than

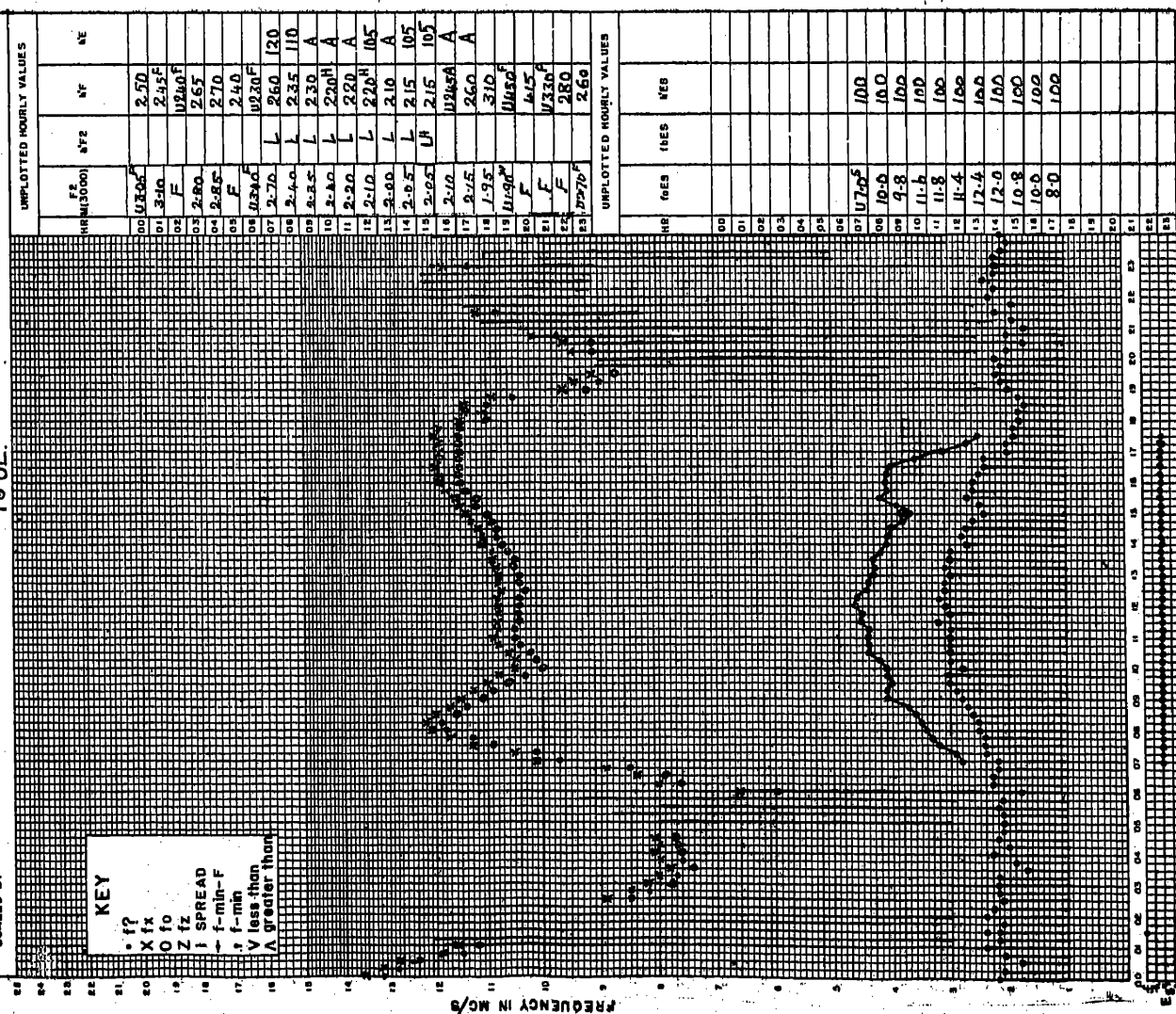


TIME	f _o F	f _{min} -F	f _{min}	V	A	UNPLOTTED HOURLY VALUES
00	2.00					
01	2.55					
02	2.75					
03	2.80					
04	2.80					
05	2.80					
06	2.80					
07	2.80					
08	2.80					
09	2.80					
10	2.80					
11	2.80					
12	2.80					
13	2.80					
14	2.80					
15	2.80					
16	2.80					
17	2.80					
18	2.80					
19	2.80					
20	2.80					
21	2.80					
22	2.80					
23	2.80					
24	2.80					

f-PLOT OF IONOSPHERIC DATA

DATE 10-2-1958. R.W.D.
STATION KODAIKANAL
MERIDIAN TIME 75°0E
SCALED BY

SCALED BY:



f-PLOT OF IONOSPHERIC DATA

STATION KODAIKANAL

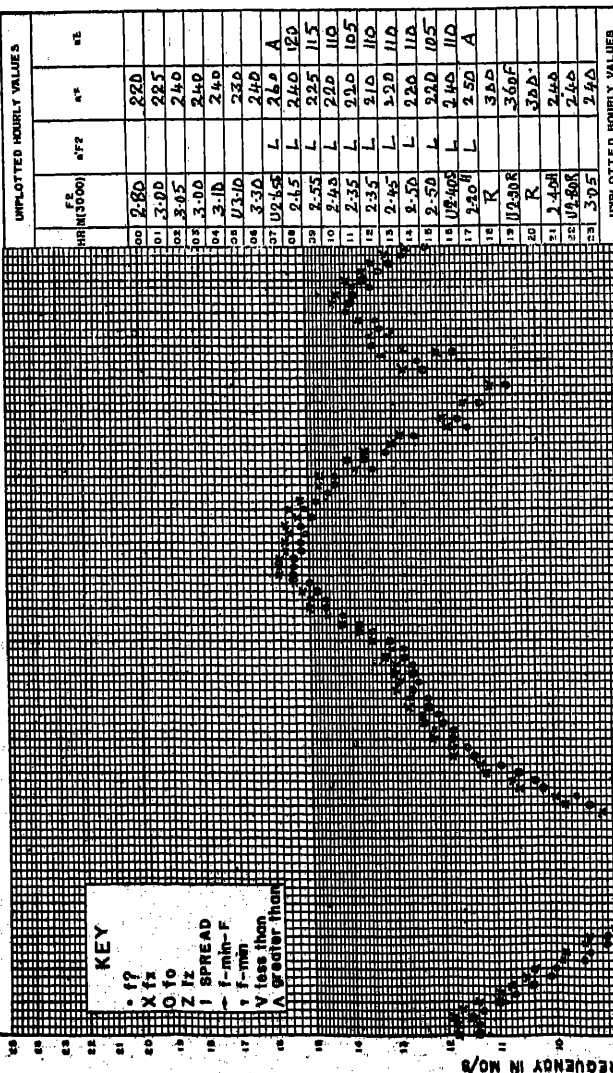
DATE 19.2.1958. RWD

MERIDIAN TIME 750E

SCALED BY

KEY

• f_oF₂
 X f_oF₁
 O f_oF₁
 Z f_oF₂
 I SPREAD
 - f-min-F
 + f-min
 V less than
 A greater than



UNPLOTED HOURLY VALUES

UNPLOTED HOURLY VALUES

UNPLOTED HOURLY VALUES

UNPLOTED HOURLY VALUES

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f-PLOT OF IONOSPHERIC DATA

STATION KODAIKANAL

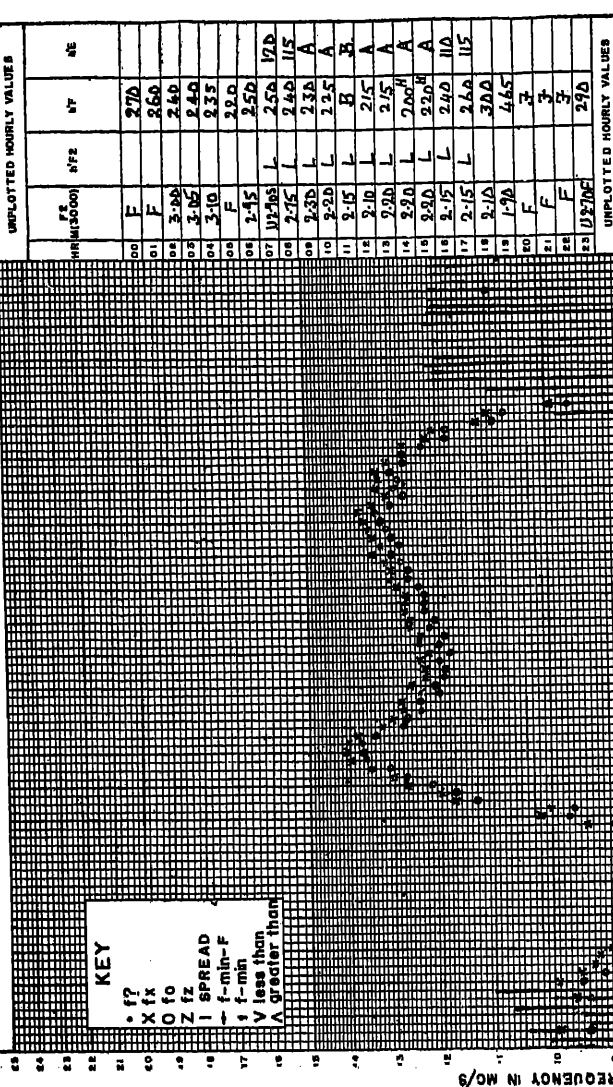
DATE 26.2.1958 RWD.

MERIDIAN TIME 750E

SCALED BY

KEY

• f_oF₂
 X f_oF₁
 O f_oF₁
 Z f_oF₂
 I SPREAD
 - f-min-F
 + f-min
 V less than
 A greater than



UNPLOTED HOURLY VALUES

UNPLOTED HOURLY VALUES

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UNPLOTED HOURLY VALUES

f-PLOT OF IONOSPHERIC DATA

DATE 21-3-58 R.W.D STATION KODAIKANAL
MERIDIAN TIME 75°0'E.

SCALED BY

KEY

• f_oF
X f_oF
O f_oF
Z f_oF
I SPREAD
- f_{min}-F
+ f_{min}-F
V less than
Λ greater than

FREQUENCY IN MC/S

UNPLOTTED HOURLY VALUES

F ₂	F ₂	F ₂	F ₂
HR	DES	DES	DES
00	2.65	2.70	
01	2.75	2.70	
02	3.00	2.35	
03	2.85	2.55	
04	2.65	2.65	
05	3.00	2.60	
06	2.50	2.95	
07	2.80	2.60	
08	2.55	2.40	
09	2.30	2.30	
10	2.35	2.30	
11	2.15	2.30	
12	2.30	2.30	
13	2.05	2.30	
14	2.05	2.30	
15	2.10	2.45	
16	2.15	2.55	
17	2.10	2.70	
18	2.10	3.00	
19	2.00	4.05	
20	1.95	4.40	
21	2.35	3.30	
22	2.40	2.40	
23	2.85	2.55	

UNPLOTTED HOURLY VALUES

HR	DES	DES	DES
00			
01			
02			
03			
04			
05			
06	U9.05	12.0	
07	U9.05	10.0	
08	10.6	10.0	
09	11.3	10.0	
10	12.0	10.0	
11	12.0	10.0	
12	12.0	10.0	
13	12.1	10.0	
14	11.6	10.0	
15	12.0	10.0	
16	10.1	10.0	
17	9.05	10.0	
18			
19			
20			
21			
22			
23			

TIME

f-PLOT OF IONOSPHERIC DATA

DATE 20-3-58 R.W.D STATION KODAIKANAL
MERIDIAN TIME 75°0'E

SCALED BY

KEY

• f_oF
X f_oF
O f_oF
Z f_oF
I SPREAD
- f_{min}-F
+ f_{min}-F
V less than
Λ greater than

FREQUENCY IN MC/S

UNPLOTTED HOURLY VALUES

F ₂	F ₂	F ₂	F ₂
HR	DES	DES	DES
00	2.65	2.70	
01	2.75	2.70	
02	3.00	2.35	
03	2.85	2.55	
04	2.65	2.65	
05	3.00	2.60	
06	2.50	2.95	
07	2.80	2.60	
08	2.55	2.40	
09	2.30	2.30	
10	2.35	2.30	
11	2.15	2.30	
12	2.30	2.30	
13	2.05	2.30	
14	2.05	2.30	
15	2.10	2.45	
16	2.15	2.55	
17	2.10	2.70	
18	2.10	3.00	
19	2.00	4.05	
20	1.95	4.40	
21	2.35	3.30	
22	2.40	2.40	
23	2.85	2.55	

UNPLOTTED HOURLY VALUES

HR	DES	DES	DES
00			
01			
02			
03			
04			
05			
06	U9.05	12.0	
07	U9.05	10.0	
08	10.6	10.0	
09	11.3	10.0	
10	12.0	10.0	
11	12.0	10.0	
12	12.0	10.0	
13	12.1	10.0	
14	11.6	10.0	
15	12.0	10.0	
16	10.1	10.0	
17	9.05	10.0	
18			
19			
20			
21			
22			
23			

TIME

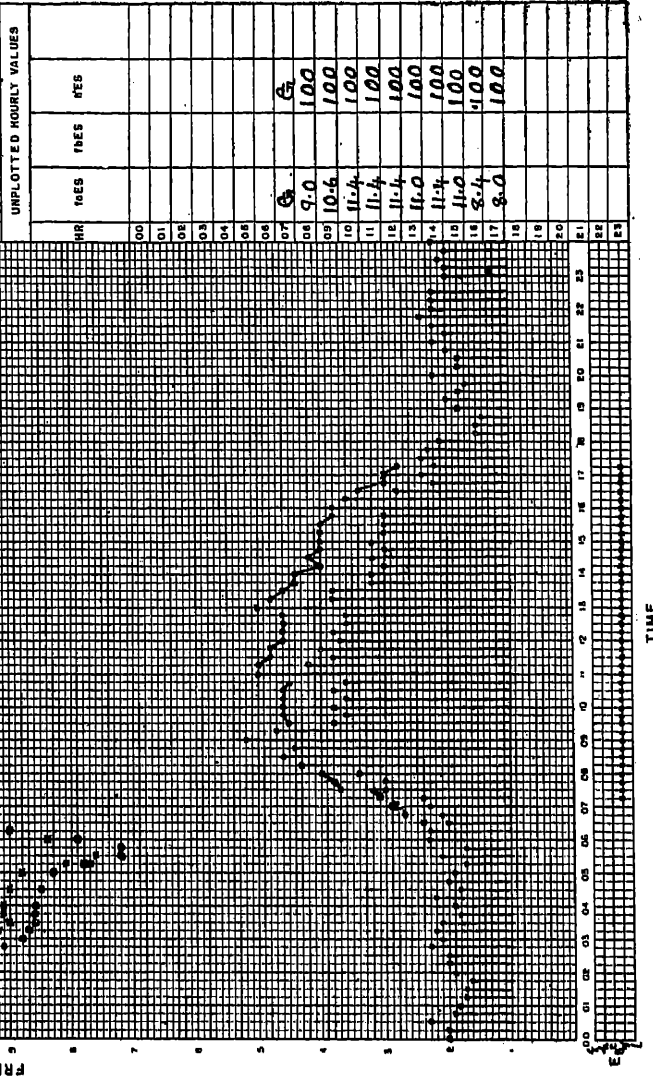
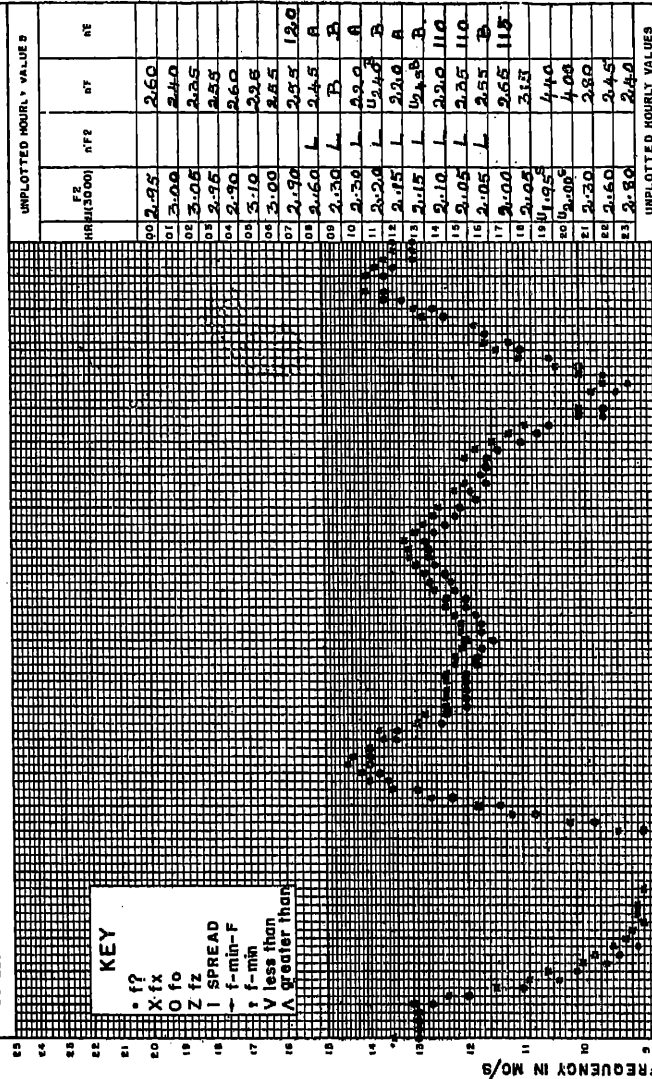
f-PLOT OF IONOSPHERIC DATA

DATE 24-3-58 S.W.I. STATION KODAIKANAL
MERIDIAN TIME 75°0E

SCALED BY

KEY

• f_p
X f_{ix}
O f_o
Z f_z
I SPREAD
→ f-min-F
+ f-min
V less than
Λ greater than



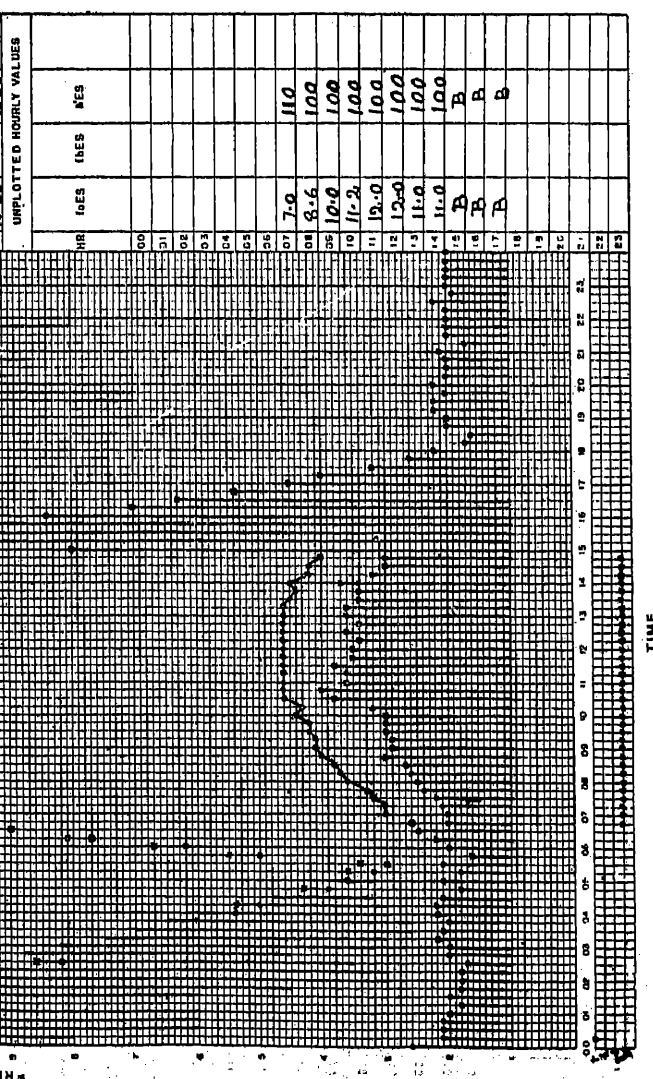
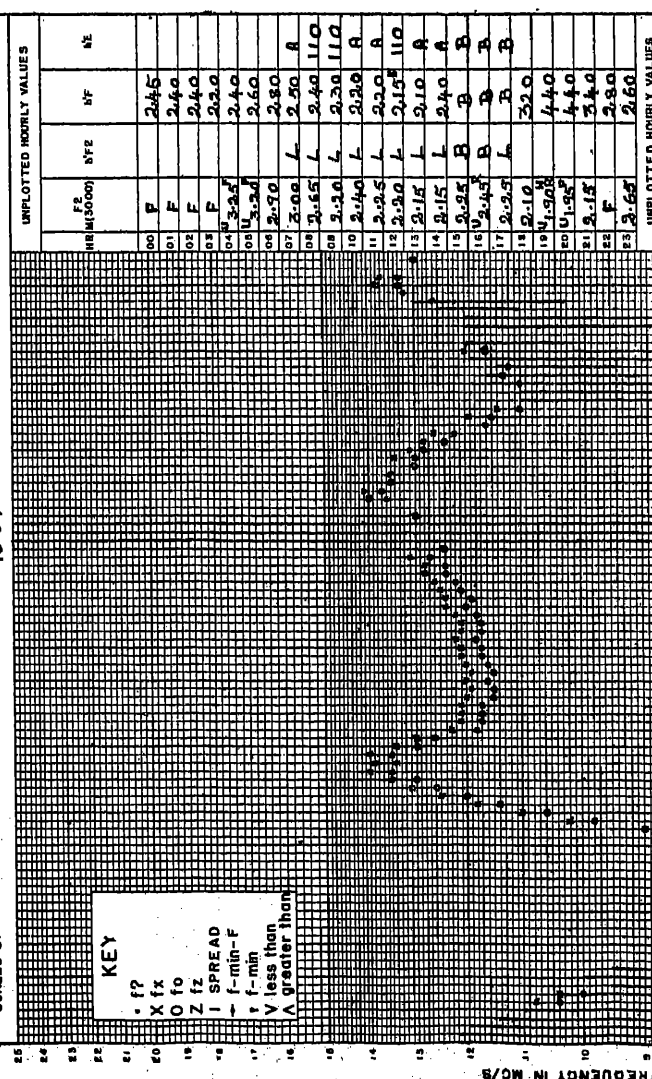
f-PLOT OF IONOSPHERIC DATA

DATE 23-3-58 S.W.I. STATION KODAIKANAL
MERIDIAN TIME 75°0E

SCALED BY

KEY

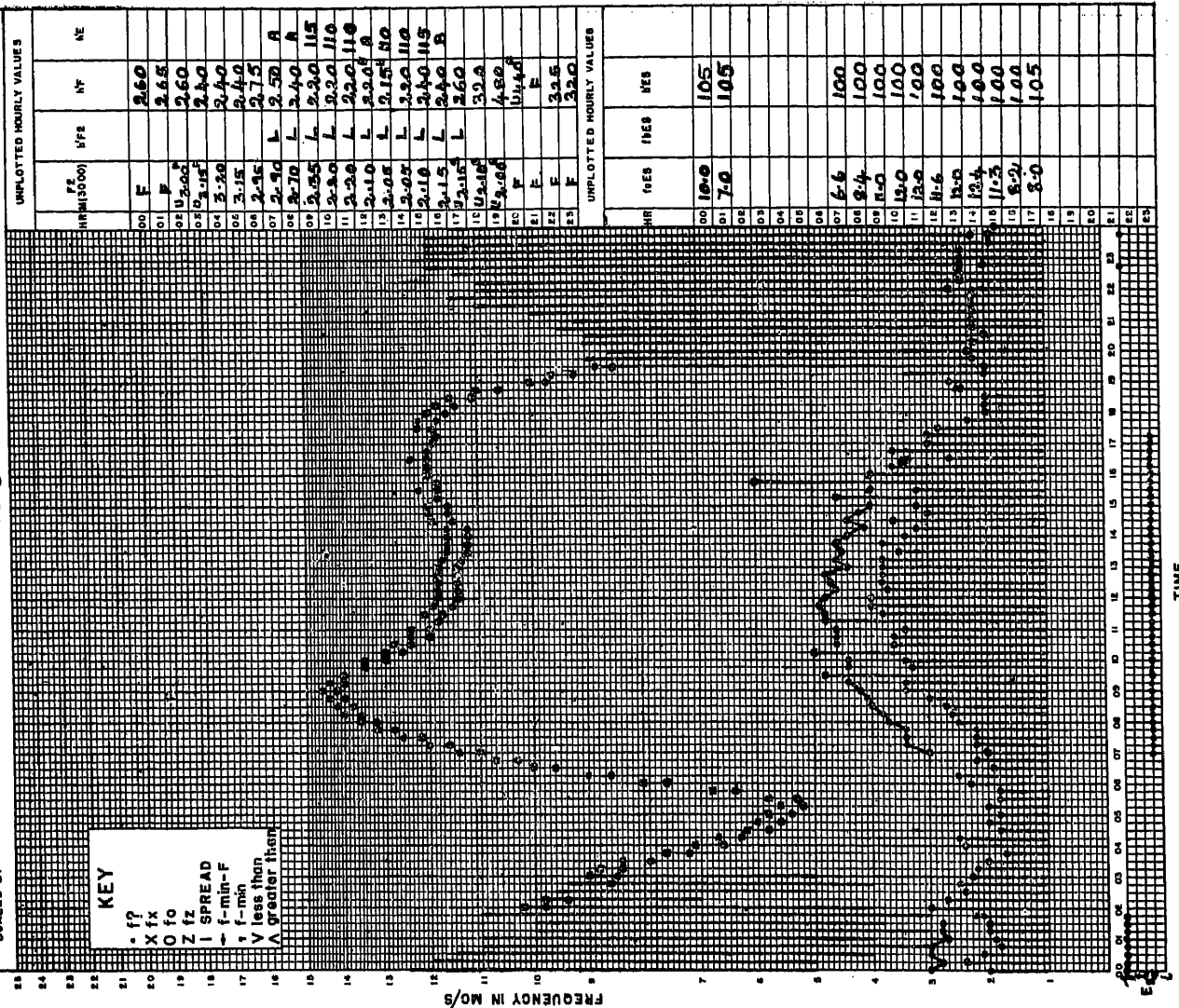
• f_p
X f_{ix}
O f_o
Z f_z
I SPREAD
→ f-min-F
+ f-min
V less than
Λ greater than



f-PLOT OF IONOSPHERIC DATA

STATION KODAIKANAL
MERIDIAN TIME 75.0 E

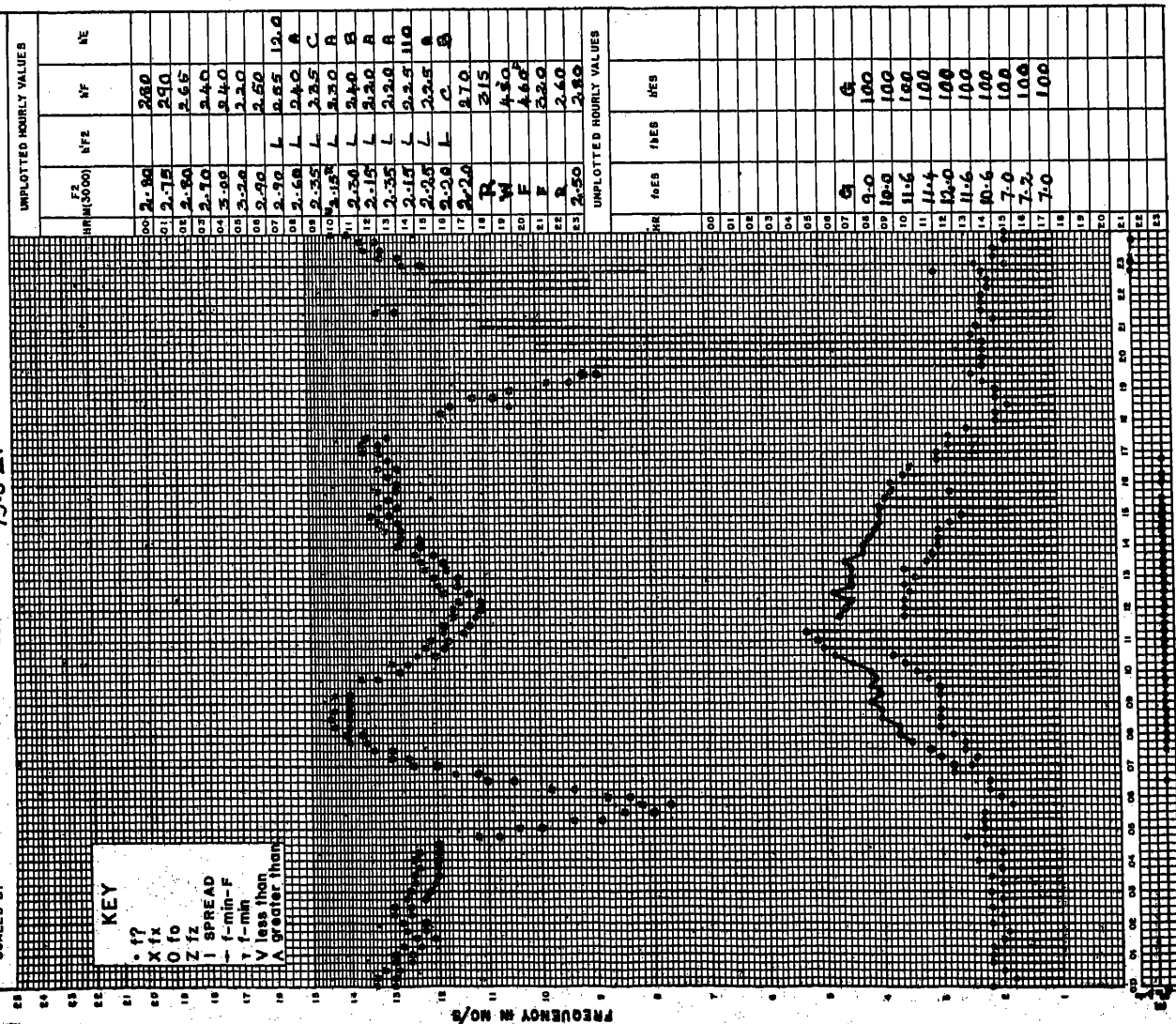
DATE 28-3-58 R.W.D.
SCALED BY



f-PLOT OF IONOSPHERIC DATA

STATION KODAIKANAL
MERIDIAN TIME 75.0 E

DATE 25-3-58 S.W.I.
SCALED BY



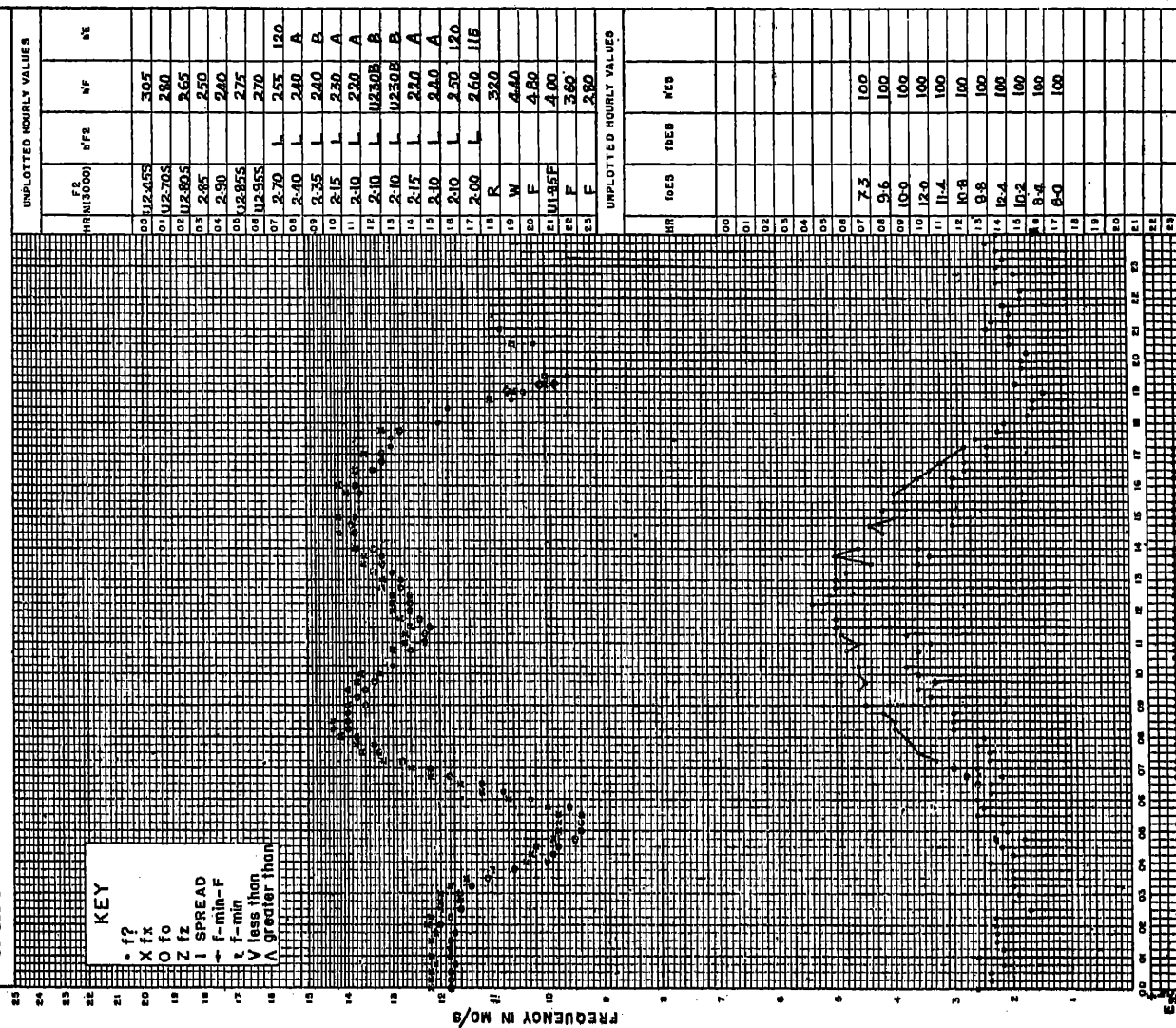
f-PLOT OF IONOSPHERIC DATA

DATE 31.3.58. S.W.I.

STATION KODAIKANAL

SCALED BY

MERIDIAN TIME 75°0E.

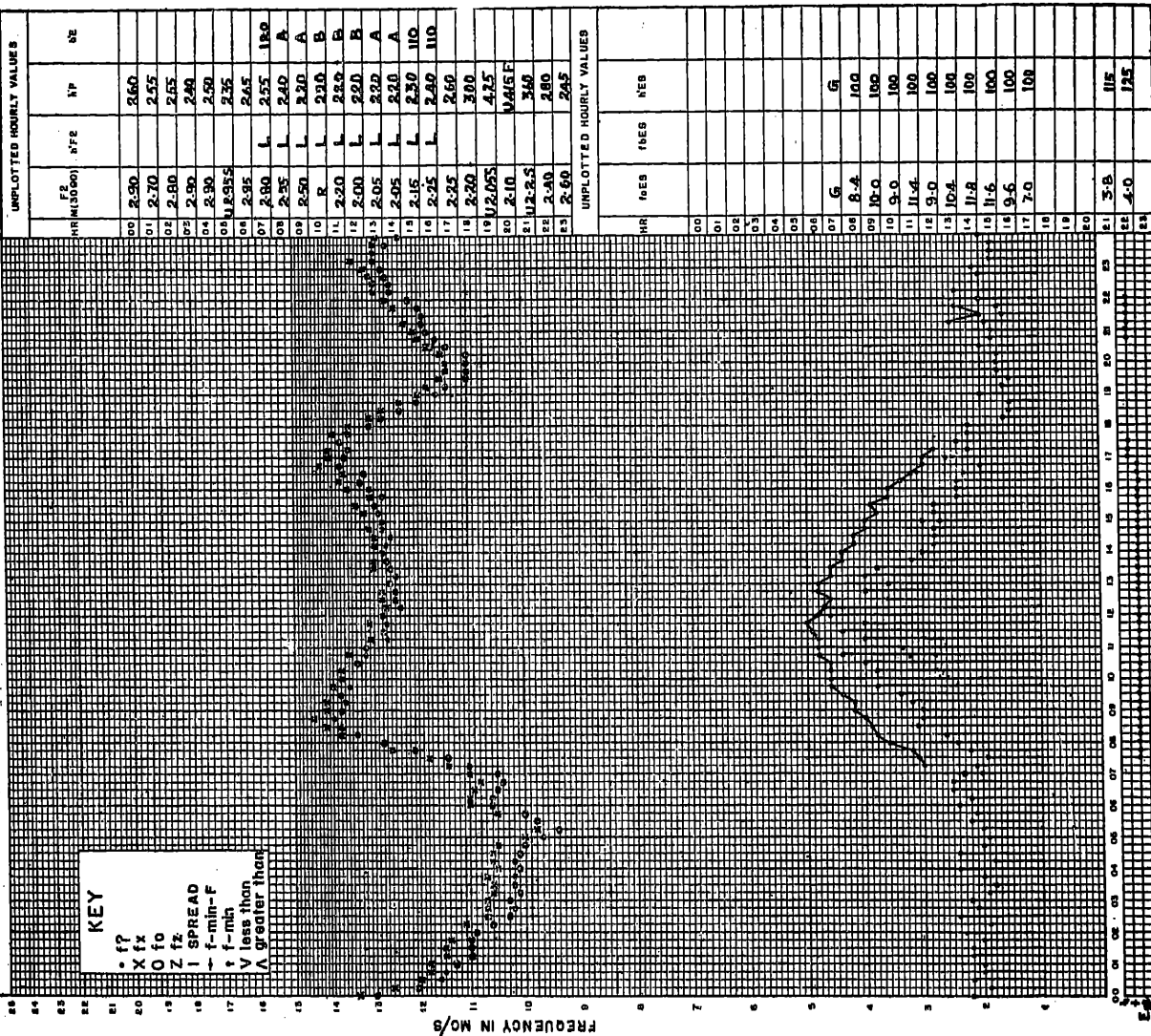


TIME

f-PLOT OF IONOSPHERIC DATA

DATE 19-4-58. R.W.D.
STATION KODAIKANAL
MERIDIAN TIME 75°0E

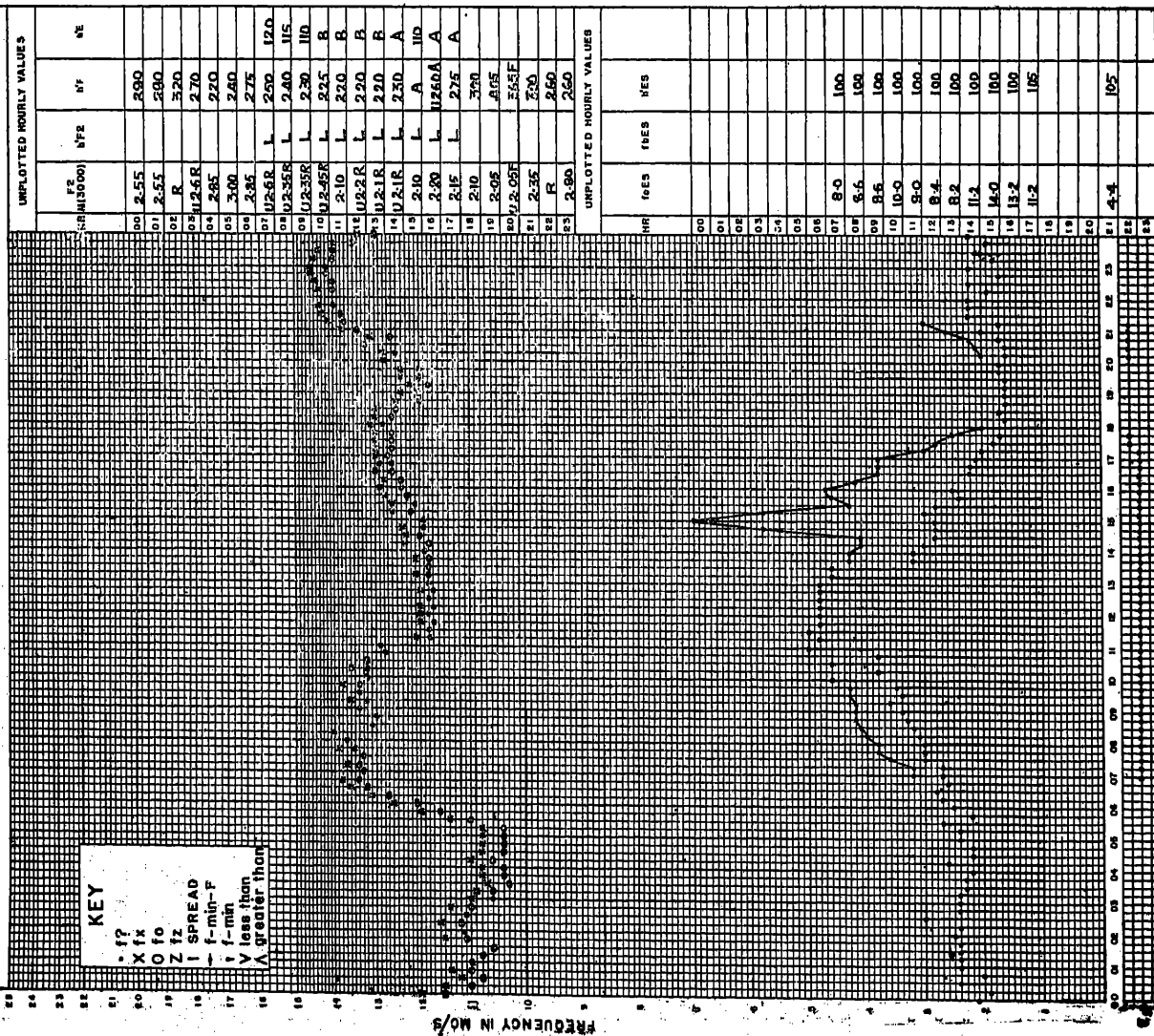
SCALED BY



f-PLOT OF IONOSPHERIC DATA

DATE 18-4-58. R.W.D.
STATION KODAIKANAL
MERIDIAN TIME 75°0E

SCALED BY



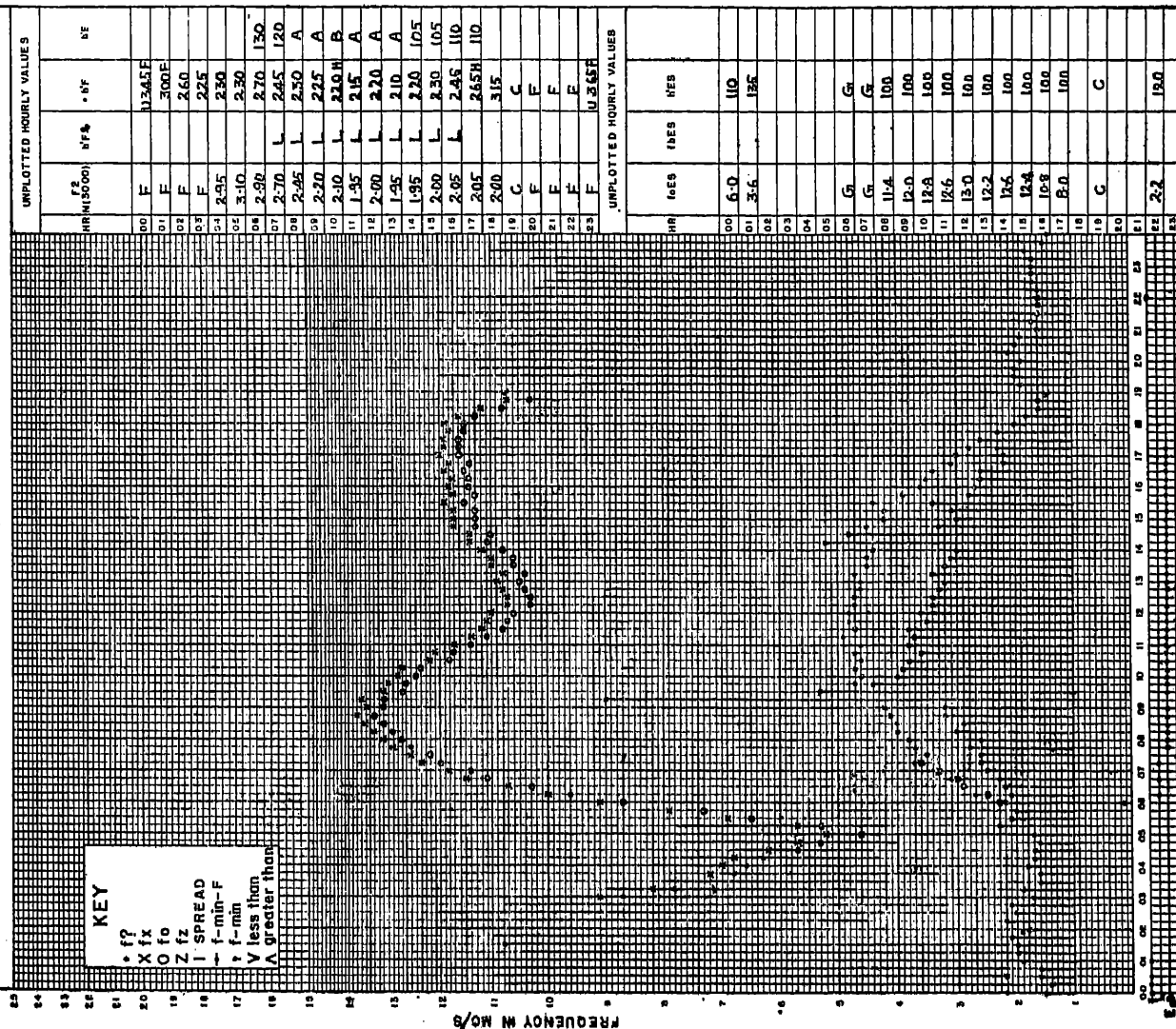
f-PLOT OF IONOSPHERIC DATA

DATE 5-5-58 R.W.D.

SCAILED BY

STATION
KODAIKANAL

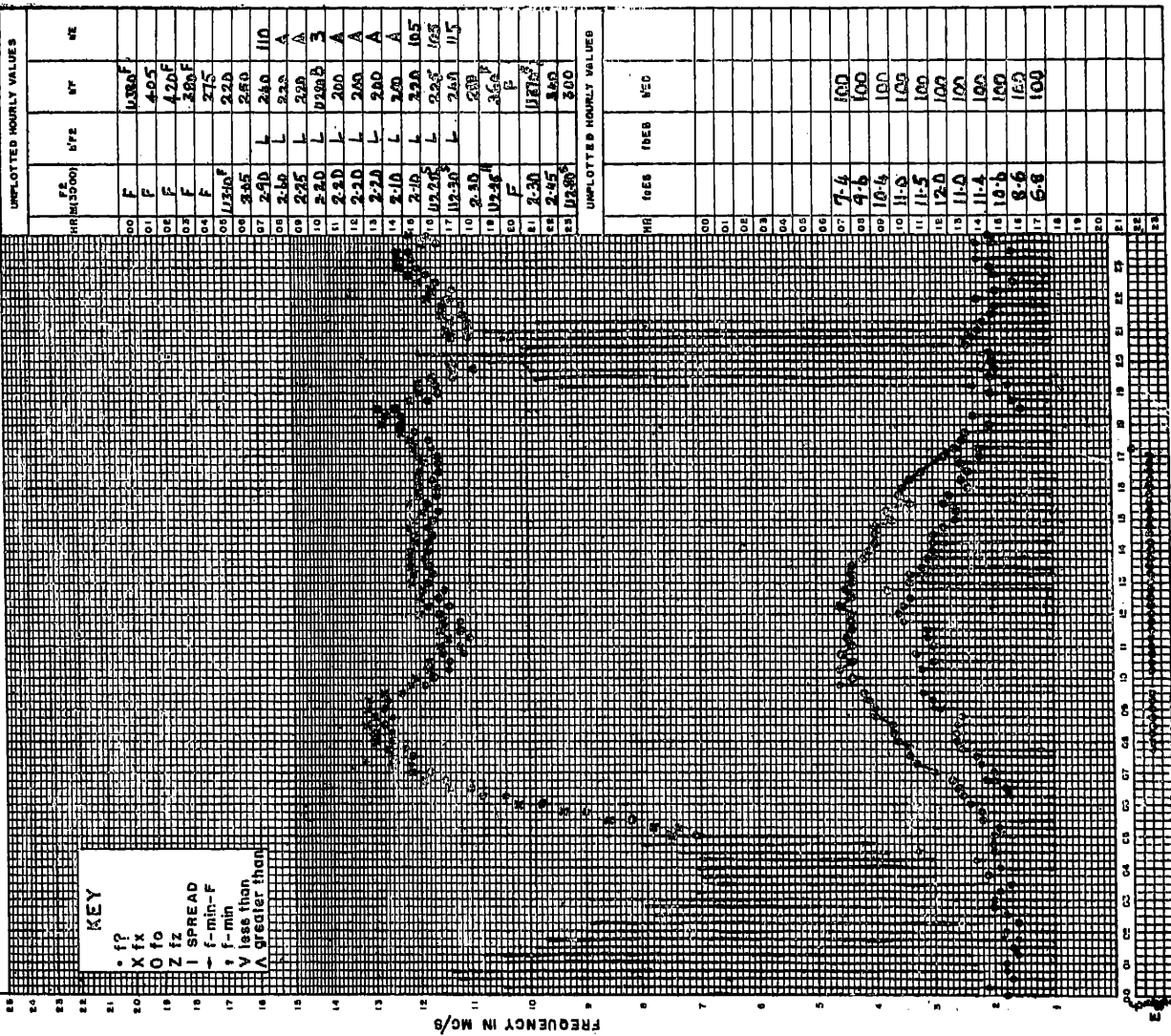
MERIDIAN TIME 75.0E



TIME

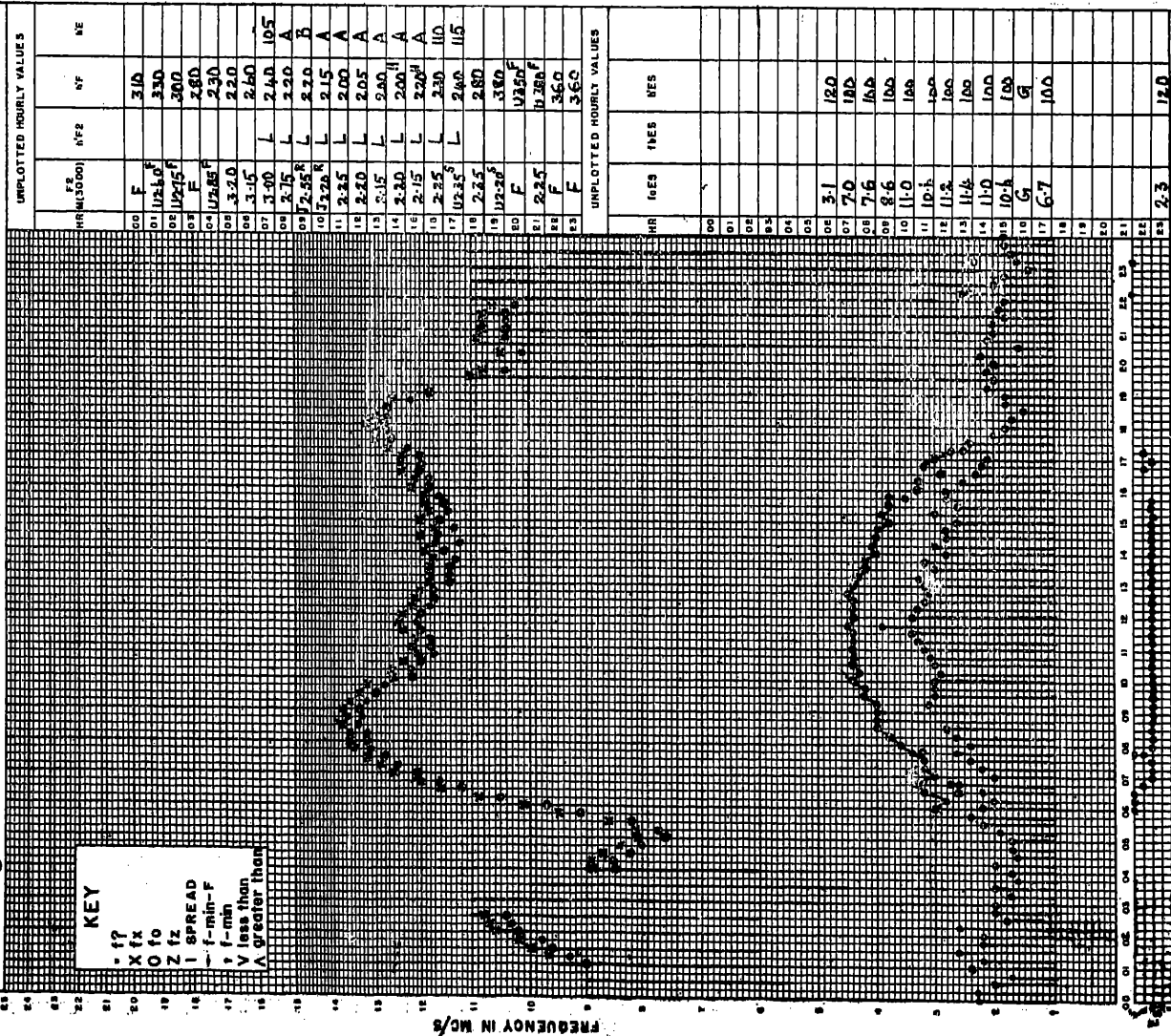
f-PLOT OF IONOSPHERIC DATA

DATE 19.5.1958 R.W.D. STATION KODAIKANAL
MERIDIAN TIME 75.0E.
SCALED BY



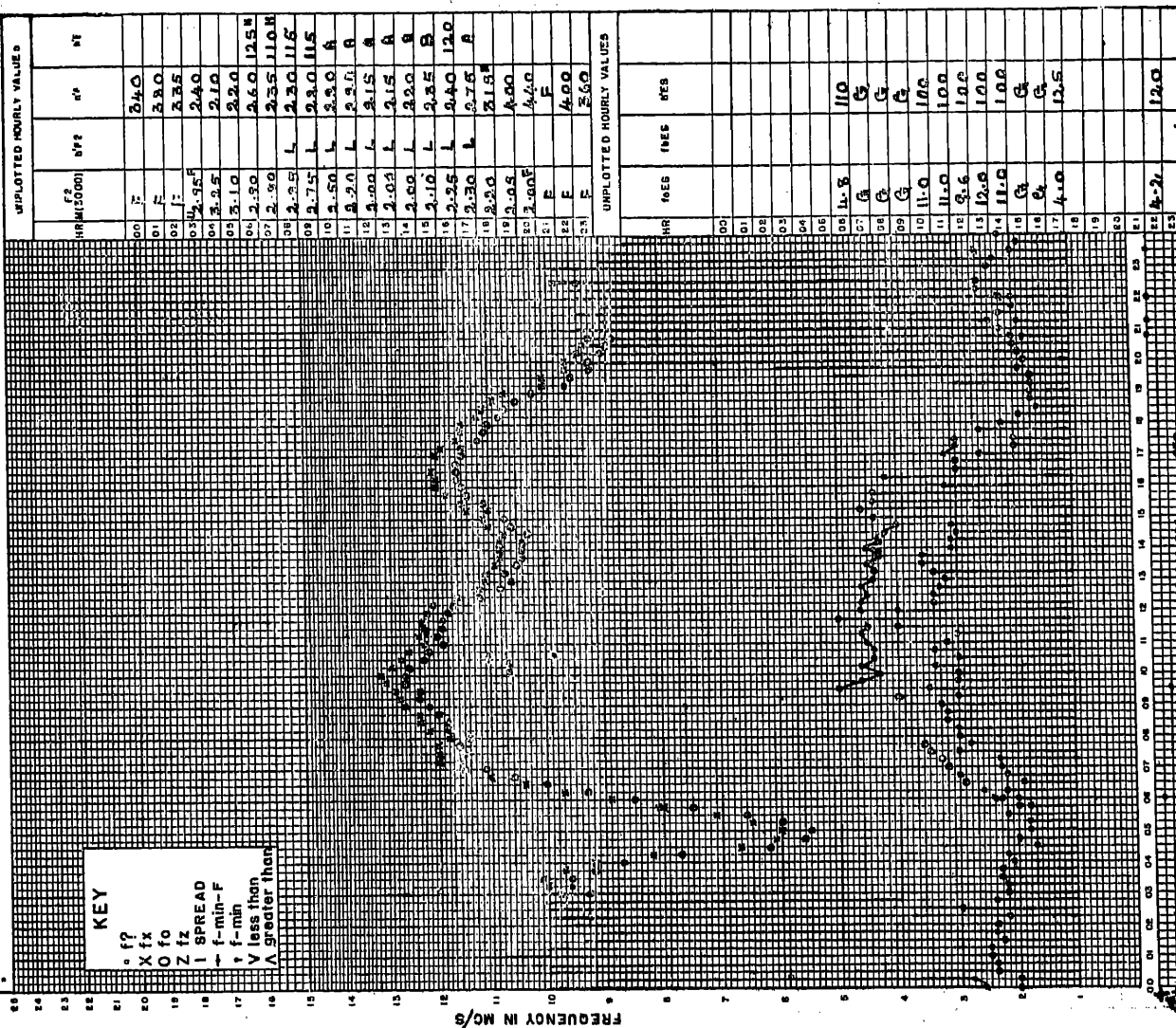
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DATE 18.5.1958 R.W.D. STATION KODAIKANAL
MERIDIAN TIME 75.0E.
SCALED BY



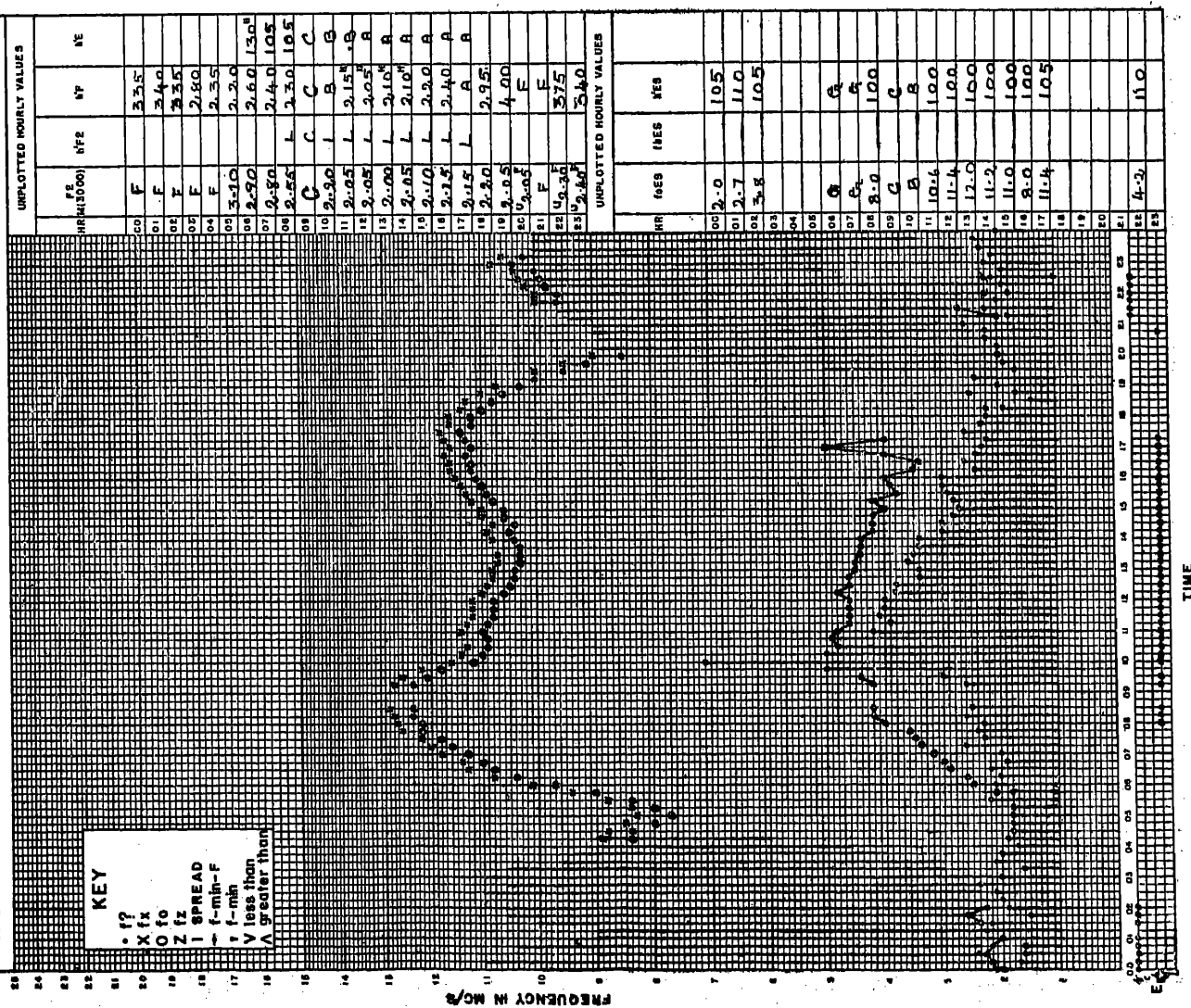
f-PLOT OF IONOSPHERIC DATA

DATE 7-6-53 S.W.I.
STATION KODAIKANAL
MERIDIAN TIME 15.0E
SCALED BY



f-PLOT OF IONOSPHERIC DATA

DATE 6-6-58 S.W.I.
STATION KODAIKANAL
MERIDIAN TIME 75.0E
SCALED BY



FREQUENCY IN MC/S

DATE 8-6-58 S.W.I.
STATION KODAIKANAL
MERIDIAN TIME 75°0E

f-PLOT OF IONOSPHERIC DATA

KEY

• f_oF
x f_oF_{min}
o f_oF_{max}
Z f_z
I SPREAD
+ f_{min}-F
+ f_{min}
V less than
A greater than

TIME

UNPLOTTED HOURLY VALUES			
TIME	f _o F	f _o F _{min}	f _o F _{max}
00			
01	5.3	5.3	13.0
02	5.4	5.4	11.0
03	3.0	3.0	10.5
04			
05			
06	5.0	5.0	10.0
07	5.6	5.6	10.0
08	10.4	10.4	10.0
09	12.0	12.0	10.0
10	13.0	13.0	10.0
11	11.4	11.4	10.0
12	11.4	11.4	10.0
13	11.0	11.0	10.0
14	11.0	11.0	10.0
15	9.0	9.0	10.0
16	7.8	7.8	10.5
17			
18			
19			
20			
21			
22			
23			

FREQUENCY IN MC/S

DATE 9-6-58 R.W.D.
STATION KODAIKANAL
MERIDIAN TIME 75°0E

f-PLOT OF IONOSPHERIC DATA

KEY

• f_oF
x f_oF_{min}
o f_oF_{max}
Z f_z
I SPREAD
+ f_{min}-F
+ f_{min}
V less than
A greater than

TIME

UNPLOTTED HOURLY VALUES			
TIME	f _o F	f _o F _{min}	f _o F _{max}
00			
01	5.3	5.3	13.0
02	5.4	5.4	11.0
03	3.0	3.0	10.5
04			
05			
06	5.0	5.0	10.0
07	5.6	5.6	10.0
08	10.4	10.4	10.0
09	12.0	12.0	10.0
10	13.0	13.0	10.0
11	11.4	11.4	10.0
12	11.4	11.4	10.0
13	11.0	11.0	10.0
14	11.0	11.0	10.0
15	9.0	9.0	10.0
16	7.8	7.8	10.5
17			
18			
19			
20			
21			
22			
23			

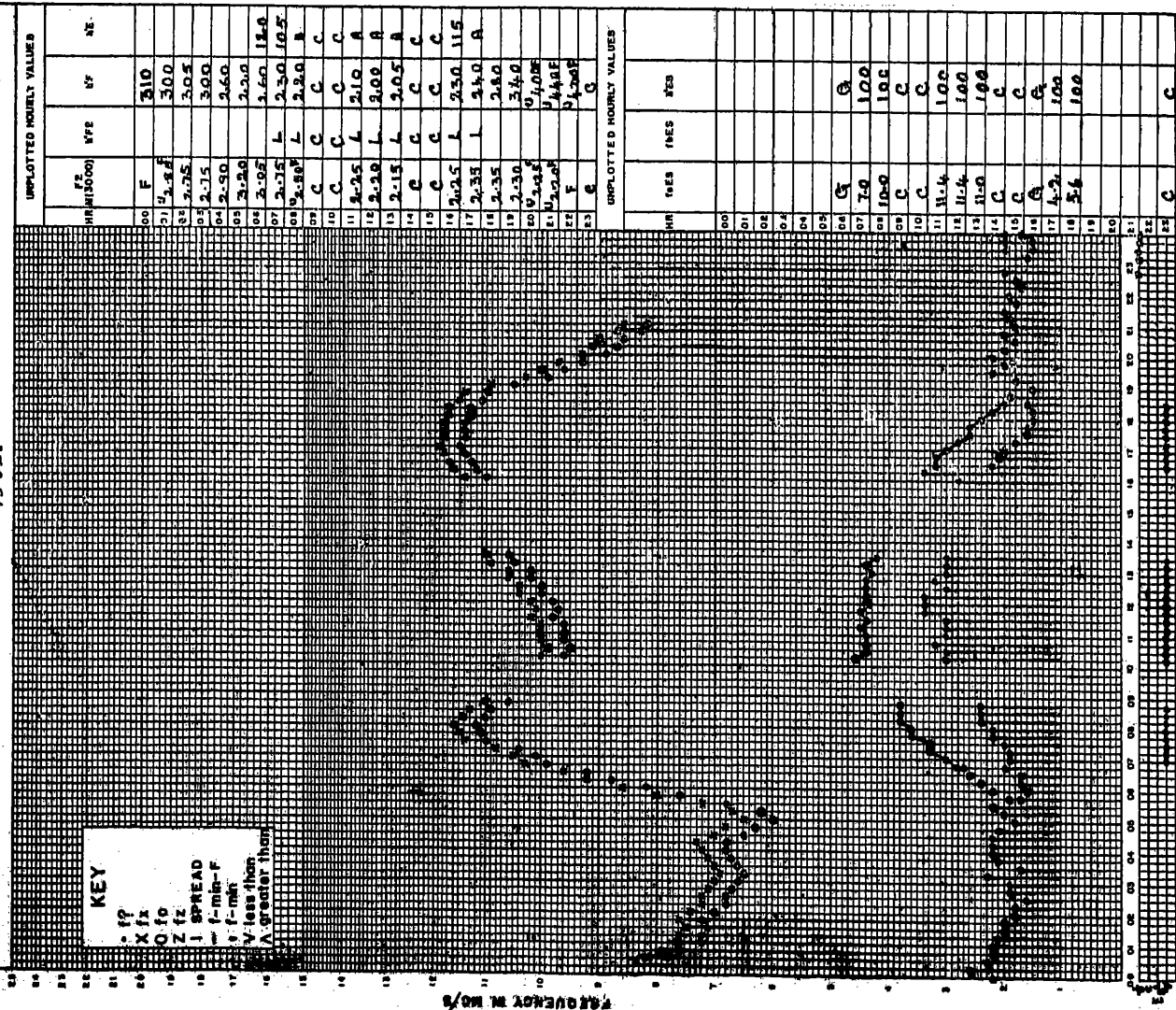
f-PLOT OF IONOSPHERIC DATA

DATE 17-6-53 R.W.D.

STATION KODAIKANAL

MERIDIAN TIME 75°E.

SCALED BY



KEY

• f_p
 X f_x
 ○ $f_o f_2$
 * $Z f_z$
 — f_{min}
 - - f_{max}
 ••• f_{min-F}
 — f_{min}
 V less than
 A greater than

FREQUENCY IN MHz

TIME

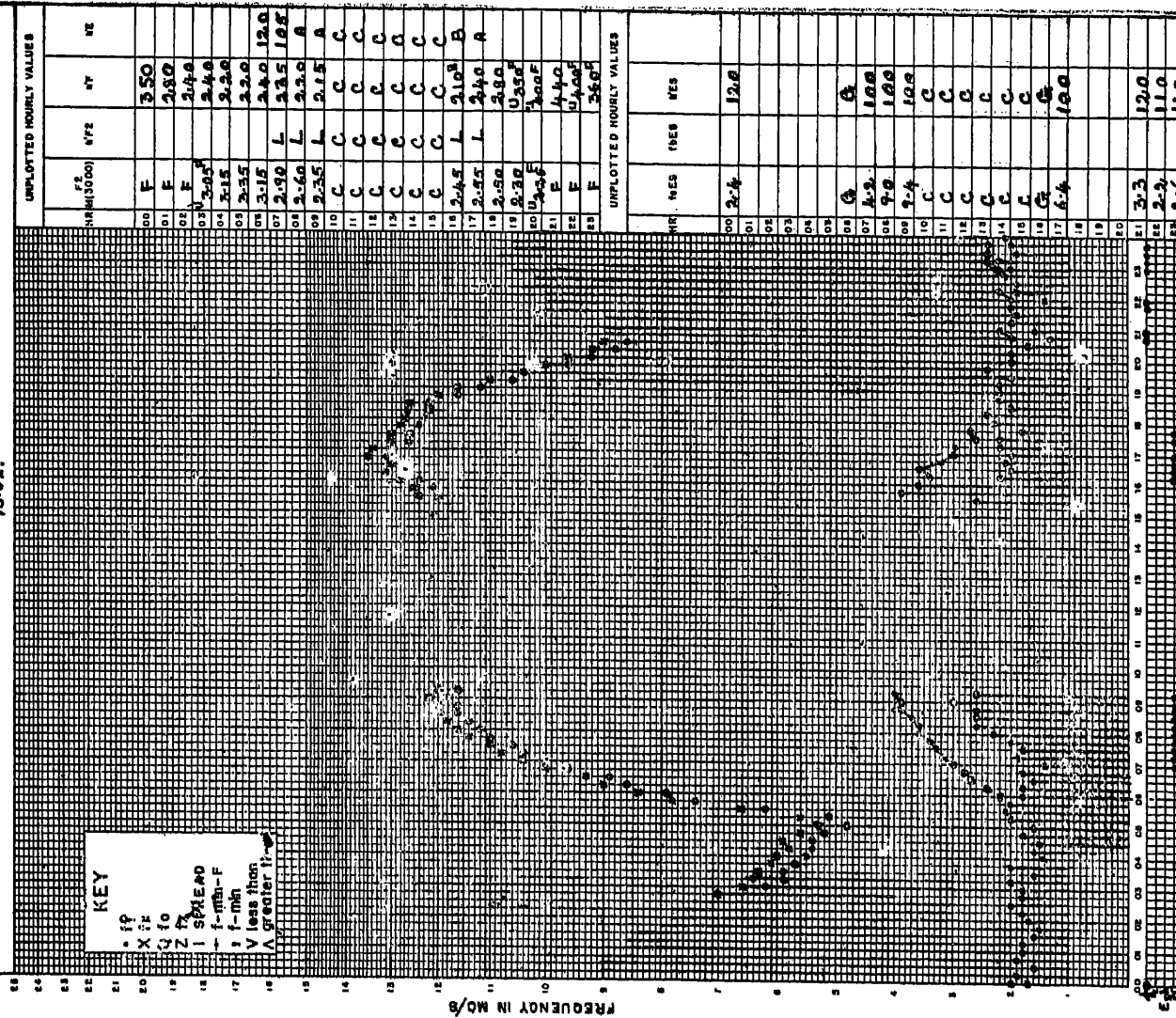
f-PLOT OF IONOSPHERIC DATA

DATE 16-6-58 R.W.D.

STATION KODAIKANAL

MERIDIAN TIME 75°E.

SCALED BY



KEY

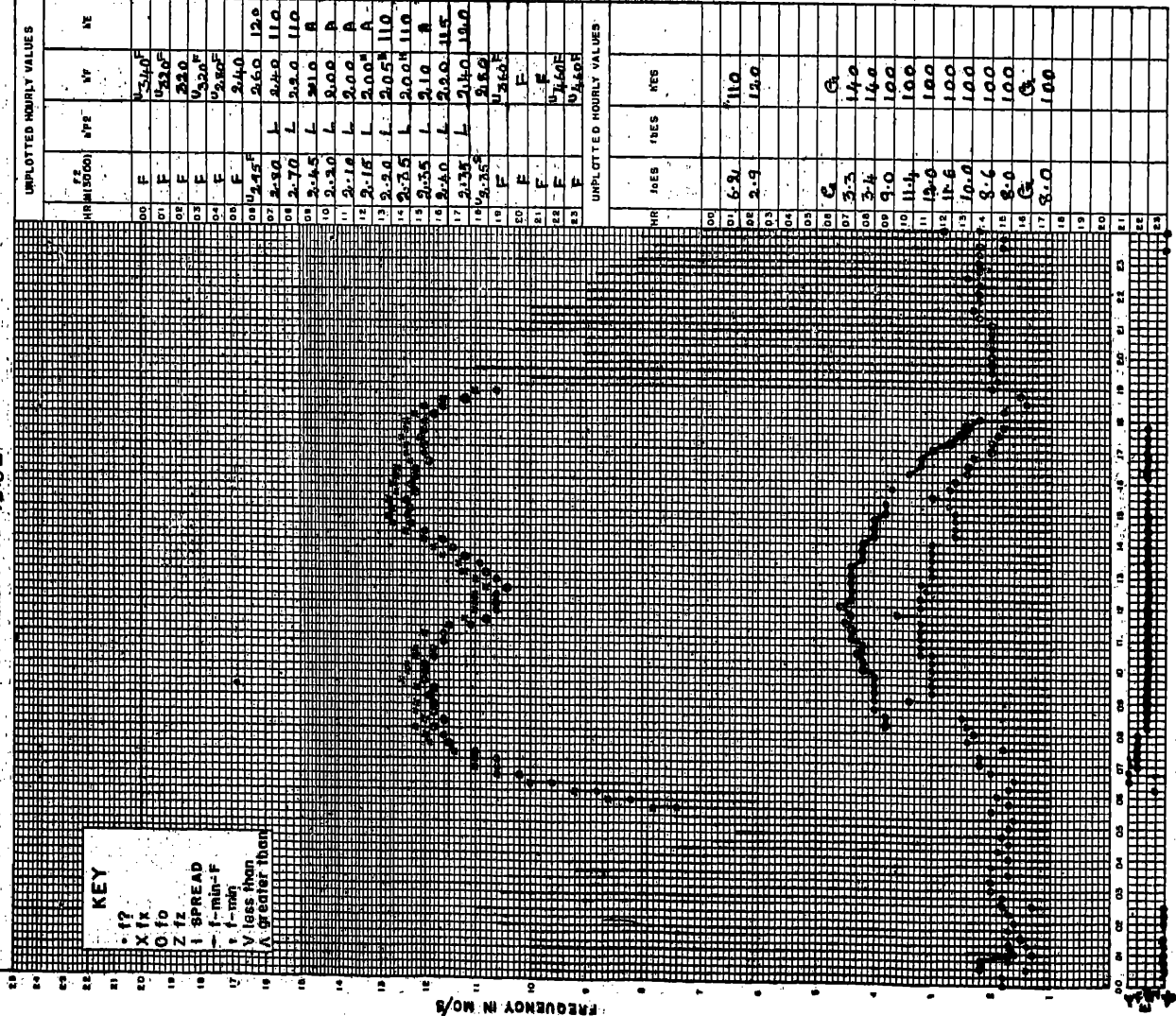
• f_p
 X f_x
 ○ $f_o f_2$
 * $Z f_z$
 — f_{min}
 - - f_{max}
 ••• f_{min-F}
 — f_{min}
 V less than
 A greater than

FREQUENCY IN MHz

f-PLOT OF IONOSPHERIC DATA

DATE 30-6-58 S.W.I. STATION KODAKKANAL
 SCALED BY MERIDIAN TIME 75°0'E

KEY
 • f_p
 x f_h
 o f_o
 z f_z
 I SPREAD
 - f-min-F
 + f-max-F
 V less than
 A greater than

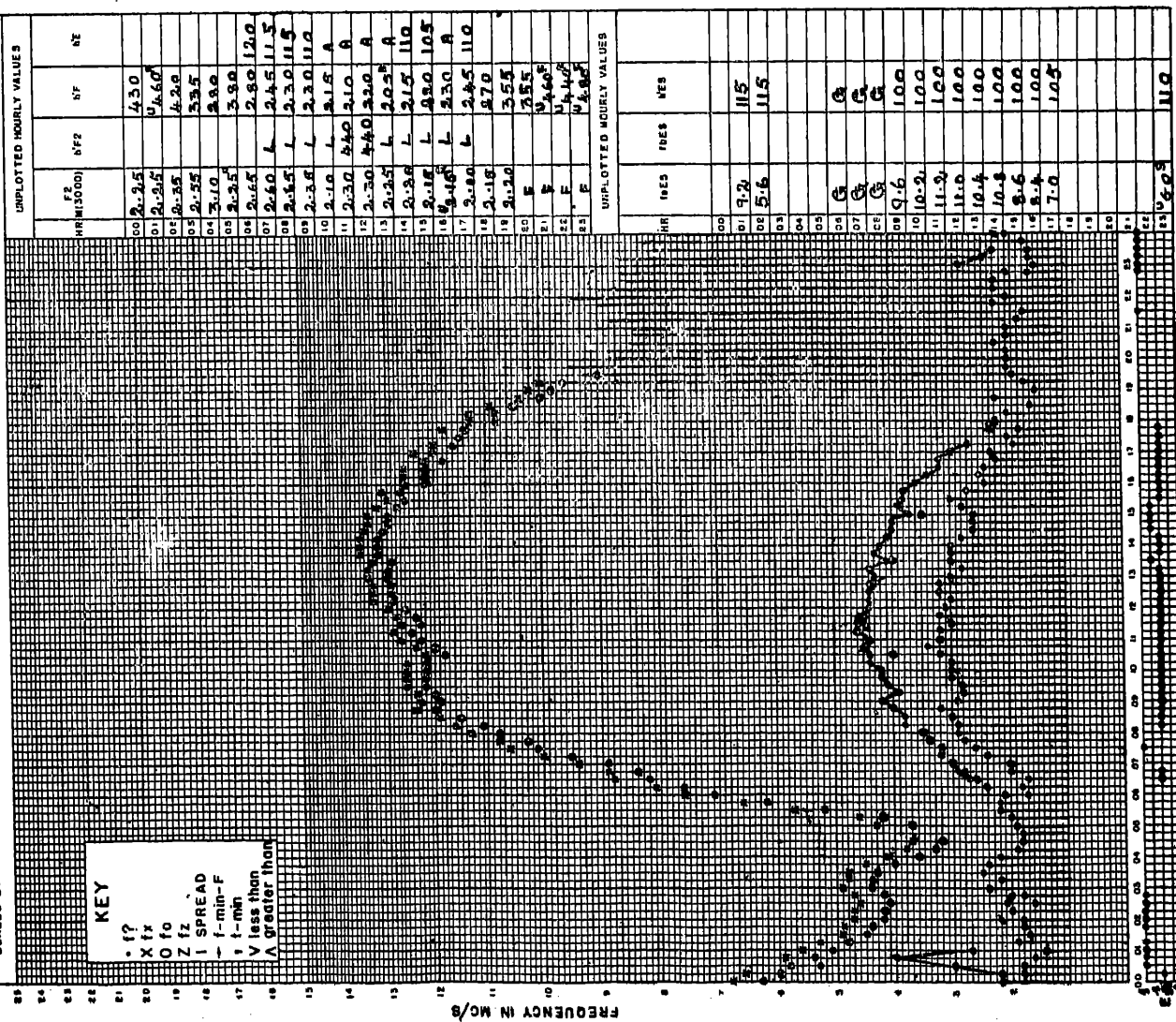


UNPLOTED HOURLY VALUES

HR	1000	1005	1010	1015	1020	1025	1030	1035	1040	1045	1050	1055	1060	1065	1070	1075	1080	1085	1090	1095	1100	1105	1110	1115	1120	1125	1130	1135	1140	1145	1150	1155	1160	1165	1170	1175	1180	1185	1190	1195	1200	1205	1210	1215	1220	1225	1230	1235	1240	1245	1250	1255	1260	1265	1270	1275	1280	1285	1290	1295	1300	1305	1310	1315	1320	1325	1330	1335	1340	1345	1350	1355	1360	1365	1370	1375	1380	1385	1390	1395	1400	1405	1410	1415	1420	1425	1430	1435	1440	1445	1450	1455	1460	1465	1470	1475	1480	1485	1490	1495	1500	1505	1510	1515	1520	1525	1530	1535	1540	1545	1550	1555	1560	1565	1570	1575	1580	1585	1590	1595	1600	1605	1610	1615	1620	1625	1630	1635	1640	1645	1650	1655	1660	1665	1670	1675	1680	1685	1690	1695	1700	1705	1710	1715	1720	1725	1730	1735	1740	1745	1750	1755	1760	1765	1770	1775	1780	1785	1790	1795	1800	1805	1810	1815	1820	1825	1830	1835	1840	1845	1850	1855	1860	1865	1870	1875	1880	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	1955	1960	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065	2070	2075	2080	2085	2090	2095	2100	2105	2110	2115	2120	2125	2130	2135	2140	2145	2150	2155	2160	2165	2170	2175	2180	2185	2190	2195	2200	2205	2210	2215	2220	2225	2230	2235	2240	2245	2250	2255	2260	2265	2270	2275	2280	2285	2290	2295	2300	2305	2310	2315	2320	2325	2330	2335	2340	2345	2350	2355	2360	2365	2370	2375	2380	2385	2390	2395	2400	2405	2410	2415	2420	2425	2430	2435	2440	2445	2450	2455	2460	2465	2470	2475	2480	2485	2490	2495	2500	2505	2510	2515	2520	2525	2530	2535	2540	2545	2550	2555	2560	2565	2570	2575	2580	2585	2590	2595	2600	2605	2610	2615	2620	2625	2630	2635	2640	2645	2650	2655	2660	2665	2670	2675	2680	2685	2690	2695	2700	2705	2710	2715	2720	2725	2730	2735	2740	2745	2750	2755	2760	2765	2770	2775	2780	2785	2790	2795	2800	2805	2810	2815	2820	2825	2830	2835	2840	2845	2850	2855	2860	2865	2870	2875	2880	2885	2890	2895	2900	2905	2910	2915	2920	2925	2930	2935	2940	2945	2950	2955	2960	2965	2970	2975	2980	2985	2990	2995	3000	3005	3010	3015	3020	3025	3030	3035	3040	3045	3050	3055	3060	3065	3070	3075	3080	3085	3090	3095	3100	3105	3110	3115	3120	3125	3130	3135	3140	3145	3150	3155	3160	3165	3170	3175	3180	3185	3190	3195	3200	3205	3210	3215	3220	3225	3230	3235	3240	3245	3250	3255	3260	3265	3270	3275	3280	3285	3290	3295	3300	3305	3310	3315	3320	3325	3330	3335	3340	3345	3350	3355	3360	3365	3370	3375	3380	3385	3390	3395	3400	3405	3410	3415	3420	3425	3430	3435	3440	3445	3450	3455	3460	3465	3470	3475	3480	3485	3490	3495	3500	3505	3510	3515	3520	3525	3530	3535	3540	3545	3550	3555	3560	3565	3570	3575	3580	3585	3590	3595	3600	3605	3610	3615	3620	3625	3630	3635	3640	3645	3650	3655	3660	3665	3670	3675	3680	3685	3690	3695	3700	3705	3710	3715	3720	3725	3730	3735	3740	3745	3750	3755	3760	3765	3770	3775	3780	3785	3790	3795	3800	3805	3810	3815	3820	3825	3830	3835	3840	3845	3850	3855	3860	3865	3870	3875	3880	3885	3890	3895	3900	3905	3910	3915	3920	3925	3930	3935	3940	3945	3950	3955	3960	3965	3970	3975	3980	3985	3990	3995	4000	4005	4010	4015	4020	4025	4030	4035	4040	4045	4050	4055	4060	4065	4070	4075	4080	4085	4090	4095	4100	4105	4110	4115	4120	4125	4130	4135	4140	4145	4150	4155	4160	4165	4170	4175	4180	4185	4190	4195	4200	4205	4210	4215	4220	4225	4230	4235	4240	4245	4250	4255	4260	4265	4270	4275	4280	4285	4290	4295	4300	4305	4310	4315	4320	4325	4330	4335	4340	4345	4350	4355	4360	4365	4370	4375	4380	4385	4390	4395	4400	4405	4410	4415	4420	4425	4430	4435	4440	4445	4450	4455	4460	4465	4470	4475	4480	4485	4490	4495	4500	4505	4510	4515	4520	4525	4530	4535	4540	4545	4550	4555	4560	4565	4570	4575	4580	4585	4590	4595	4600	4605	4610	4615	4620	4625	4630	4635	4640	4645	4650	4655	4660	4665	4670	4675	4680	4685	4690	4695	4700	4705	4710	4715	4720	4725	4730	4735	4740	4745	4750	4755	4760	4765	4770	4775	4780	4785	4790	4795	4800	4805	4810	4815	4820	4825	4830	4835	4840	4845	4850	4855	4860	4865	4870	4875	4880	4885	4890	4895	4900	4905	4910	4915	4920	4925	4930	4935	4940	4945	4950	4955	4960	4965	4970	4975	4980	4985	4990	4995	5000	5005	5010	5015	5020	5025	5030	5035	5040	5045	5050	5055	5060	5065	5070	5075	5080	5085	5090	5095	5100	5105	5110	5115	5120	5125	5130	5135	5140	5145	5150	5155	5160	5165	5170	5175	5180	5185	5190	5195	5200	5205	5210	5215	5220	5225	5230	5235	5240	5245	5250	5255	5260	5265	5270	5275	5280	5285	5290	5295	5300	5305	5310	5315	5320	5325	5330	5335	5340	5345	5350	5355	5360	5365	5370	5375	5380	5385	5390	5395	5400	5405	5410	5415	5420	5425	5430	5435	5440	5445	5450	5455	5460	5465	5470	5475	5480	5485	5490	5495	5500	5505	5510	5515	5520	5525	5530	5535	5540	5545	5550	5555	5560	5565	5570	5575	5580	5585	5590	5595	5600	5605	5610	5615	5620	5625	5630	5635	5640	5645	5650	5655	5660	5665	5670	5675	5680	5685	5690	5695	5700	5705	5710	5715	5720	5725	5730	5735	5740	5745	5750	5755	5760	5765	5770	5775	5780	5785	5790	5795	5800	5805	5810	5815	5820	5825	5830	5835	5840	5845	5850	5855	5860	5865	5870	5875	5880	5885	5890	5895	5900	5905	5910	5915	5920	5925	5930	5935	5940	5945	5950	5955	5960	5965	5970	5975	5980	5985	5990	59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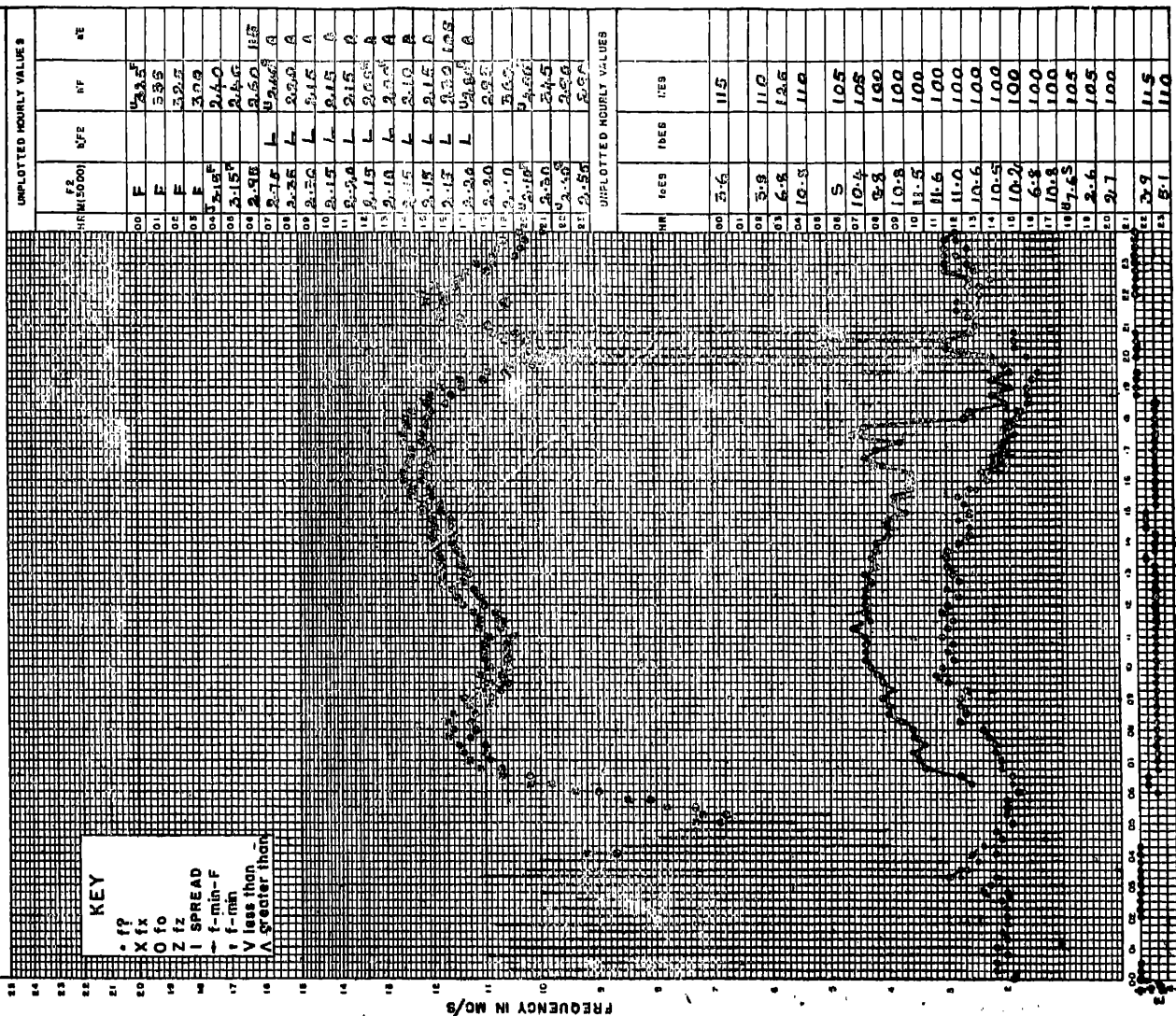
f-PLOT OF IONOSPHERIC DATA

DATE 23-6-58 S.W.I
STATION KODAIKANAL
MERIDIAN TIME 75°0E
SCALED BY



f-PLOT OF IONOSPHERIC DATA

DATE 24-6-58 R.W.D.
STATION KODAIKANAL
MERIDIAN TIME 75°0E
SCALED BY



: 1 :

E R R A T A.

Kodaikanal Observatory Bulletin No. CLVII.

Page.	Table No.	Column.	Date	Read.	for.
4	II	8	Heading	Observed	Observe
7	IV	7	Heading	Long	Log
9	V	1	19 October	October 20	October 19
9	V	2	11 Decr.	Delete 1535-1540	1535- 1540.
10	V	1	19 Decr. (first)	December 18	Decr. 19.

Contd. 2.

Page.	Table No.	Column.	Date.	Read.	for
10	V	2	24th December	Delete 1130-1140 1155-1200 1450-1510	1130-1140 1155-1200 1450-1510
10	VI	4	14 July	Delete 0757	0757
11	VI	4	1 August	0801	0701
15	VI	2	17 November	1133	1123
15	VI	2	18 November	1123	1133
17	VI	2	30 December	Add 1427 after	1138
18	VII	2	6 September	1005	1015
18	VII	4	11 October	H	F
19	VII	(2nd group)			
19	VII	2	11 November	0835	0735
19	VII	1	14 November	14th	th
22	VIII	4	16 December	H	...
22	VIII	(3rd group)			
22	VIII	3	24 September	10	9
25	IX	5	24 October	F	...
26	IX	7	Heading	f	r
26	IX	6	24 July	J	A
28	IX	(2nd group)			
28	IX	2	5 August	Delete	
28	IX	2		1345	1345
28	IX	2	11 August	1030	0500
29	IX	2	8 August	0940	0410
30	IX	2	18 August	0940	0410
30	IX	4	15 September	-08	08
36	IX	(11th group)			
38	IX	2	25 October	0905	0950
38	IX	7	5 November	3555	36
		(last group)			

BULLETIN NO. CLVII.

PART - II.

Page.	Table No.	Line/Date.	Hour/Column.	Read.	for.
317	2	21	15	36.1	6.1
318	3	4	Range	10.2	0.2
319	5	5	Range	10.5	0.5
325	6	4	Date	4++	4+
325	7	5	Date	5++	5+
327	8	13	Max. Mag.	635	638
328		4	Date	4+	4
328		19	05	607	507
329		Mean	12	578	587
330		8	Min. Time	1252	1253
330		9	20	515	516
330		17	12	507	407
331		18	14	515	525
331		26	Max. Mag.	559	530
345	16	27	-do-	591	559
345		12	Min. Time	0700	0600
345		13	-do-	0615	0115
345	17	7	Date	7	7+

PART - III.

63	4	24	1230	10.4	11.4
65	5	12	17	3.0	3.9
77	8	Median	13	200	220
90	11	24	0530	2.5	2.9S
110	16	13	1130	4.6	4.3
126	20	21	0630	110H	100H
136	23	27	02	10.0	10.5S
165	30	Characteristic	-	h'F	h'E
182	34	9	1130	12.4	12.9
182		13	1130	11.4	11.C
182		14	1130	10.6	10.
182		15	1130	11.2	11C
182		16	1130	C	.5R6
182		17	1130	J12.5R	J12.3
182		21	1130	13.9	13.4
182		22	1130	12.7	12
182		23	1130	14.3	14.2C
182		24	1130	16.2	16.9R
182		25	1130	13.0	13
182		26	1130	U12.2R	U12.8
182		27	1130	15.9	15.2
182		29	1130	C	-
204 & 205 &		Characteristic	--	h'F2	h/F2
206	40	15	1230	100	110
219	43	15	1330	100	110
220	44	7	01	U2.90S	4290S
221		15	14	2.10	2.00
222		Mean	1130	2.10	-
		Median	1130	2.10	-
		Count	1130	23	-
261	54	Median	17	110	100
265	55	16	23	J2.90R	2.90R
265		23	21	J2.05F	2.05F
276	58	Count	11	1	..
289	61	19	22	2.5	8.5
308	66	30	06	J2.90S	2.90S
310		21	0930	2.40	24.0
311	25	25	1930	U2.05F	02.05F



Kodaikanal Observatory

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Introduction

This Bulletin for the second half of 1958 contains in addition to the usual summary of prominence and calcium flocculus observations, other data specially collected for the I. G. Y. in respect of surges, active prominence regions and sunspots. Information concerning the hours of flare patrol and the times at which photoheliograms were secured at this observatory is also included.

PART I

Summary of prominence and calcium flocculus observations for the second half of 1958.

Part I of this Bulletin embodies the results of observations of prominences and calcium flocculi made at Kodaikanal Observatory during the second half of 1958 supplemented by data computed from photographs supplied by the Mount Wilson and Meudon Observatories for those days on which Kodaikanal had imperfect or no observations.

Calcium prominences on the limb.

During the half-year under review, photographs of calcium prominences on the limb were obtained at Kodaikanal on 105 days. Spectroheliograms for 75 days were obtained from the Mount Wilson Observatory and for 47 days from the Meudon Observatory.

The mean daily areas (in sq. minutes of arc) and the mean daily numbers of prominences derived from all the above records are tabulated below. The means are corrected for incomplete or imperfect observations, the total of 180 days for which plates were available being reduced to 176½ effective days.

		Combined data	
		Mean daily areas (Sq. minutes)	Mean daily numbers
North	. . . . .	3.88	5.43
South	. . . . .	2.22	4.32
TOTAL		6.10	9.75

The above figures show that compared to the previous half-year there has been a slight decrease in area amounting to 5.2% while the numbers show an increase of 3.4%.

For comparison with data published in Bulletins prior to 1923, *i.e.*, before the cooperation of other observatories came into force, the following table gives the values based on Kodaikanal observations alone.

		Kodaikanal data only	
		Mean daily area (Sq. minutes)	Mean daily number
North	. . . . .	3.69	5.51
South	. . . . .	2.28	4.32
TOTAL		5.97	9.83

The distribution of areas and numbers in five-degree ranges of latitude calculated from the combined data is represented in diagram I. Judged from the areas the peak of activity in the northern hemisphere has advanced towards the pole and is in the latitude belt 70°—75°. In the southern hemisphere the maximum activity is in the belt 50°—55°.

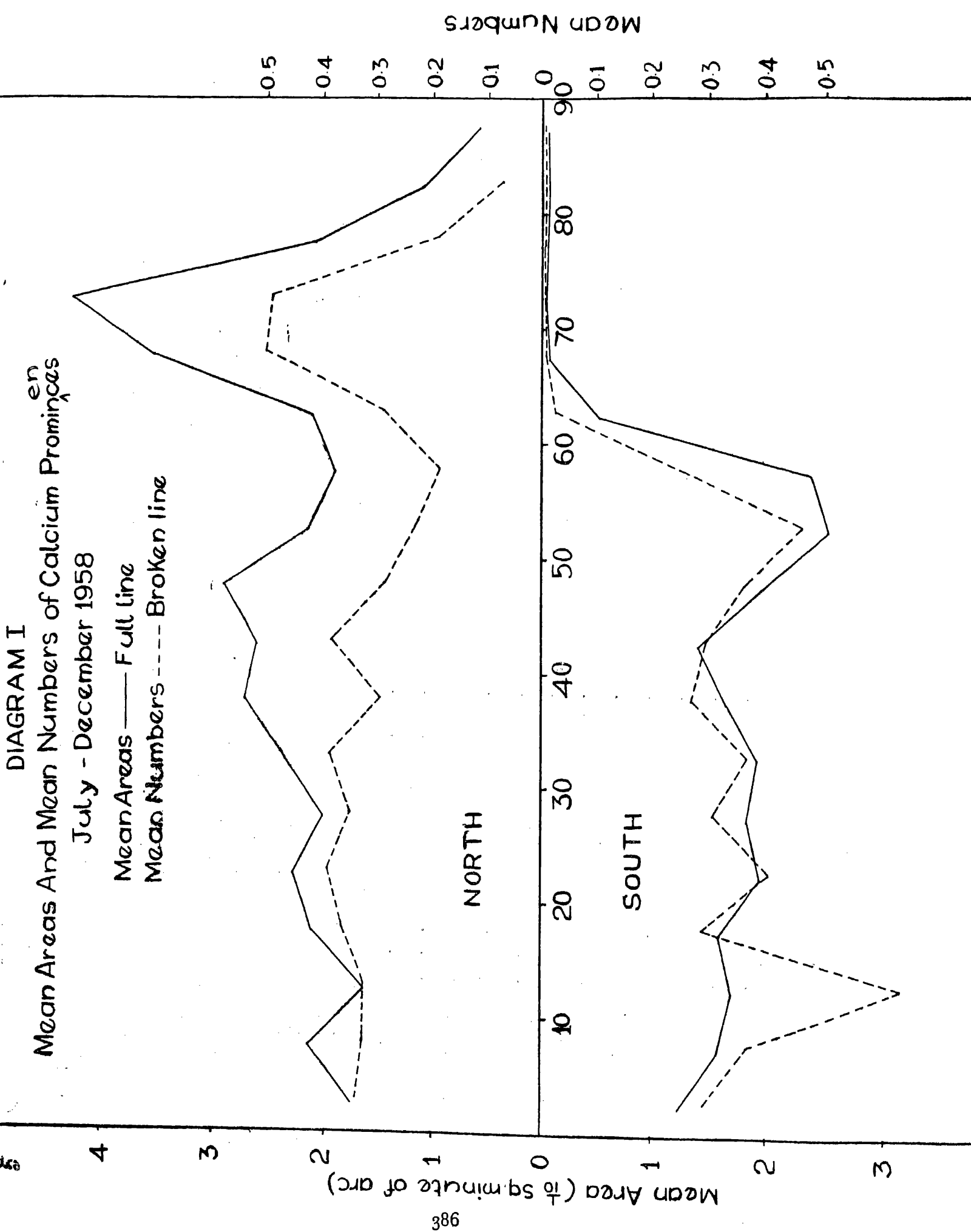
DIAGRAM I

Mean Areas And Mean Numbers of Calcium Promin^{en}ces

July - December 1958

Mean Areas — Full line

Mean Numbers --- Broken line



The monthly, quarterly and half-yearly areas, numbers, heights and extents of prominences as derived from all the records are shown in Table I.

TABLE I

1958 Months	No. of days (effective)	Area (sq. minutes)	Numbers	Daily means		Mean height	Mean extent
				Area (sq. minutes)	Numbers		
July	29½	177.35	300	6.01	10.17	51.7	4.54
August	27½	197.70	261	7.12	9.41	54.6	4.73
September	29½	157.10	281	5.32	9.52	50.6	4.43
October	29½	129.25	220	4.43	7.52	52.7	4.60
November	30	192.60	317	6.42	10.57	46.1	4.28
December	30½	222.50	344	7.29	11.28	52.3	4.90
3rd quarter	86½	532.15	842	6.13	9.71	52.3	4.56
4th quarter	89½	544.35	881	6.06	9.81	50.2	4.60
2nd half-year	176½	1076.50	1723	6.10	9.76	51.2	4.58

The distribution of prominences about the sun's axis of rotation is as follows :

1958 July-December				East	West	% East
Total area (Sq. minutes)				515.8	560.7	47.9
Total numbers				869	854	50.4

Observations with the prominence spectroscope.

12 bright reversals of the H-alpha line near sunspots were observed.

The mean heights in H-alpha, D₃ and H-beta of 10 prominences observed with the spectroscope and the mean height in the K line of the same prominences measured from the calcium spectroheliograms are as follows :

	Mean height
K	93.0
H-alpha	82.4
D ₃	74.0
H-beta	64.0

Observations with the Hale Spectroheliroscope.

Details of Doppler displacements in H-alpha line observed in prominences and dark markings are tabulated below :

	N	S	E	W	Total	Displacements		
						To Red	To Violet	Both ways
Displacements in prominences .	21	13	18	16	34	2	..	32
Displacements in dark markings .	7	11	9	9	18	1	1	16

Solar Flares.

Particulars of solar flares observed during the period are given in table II.

TABLE II

Date 1958	Time in I.S.T.			Mean latitude	Mean longitude from Central Meridian	Intensity	Maximum width of H-alpha line observe	Remarks
	Beginning h. m.	Maximum h. m.	End h. m.					
July 26	07 35	07 39	07 52	15° S	04° W	1	1.6	
October 23 (i)	07 55	08 04	08 22	09° S	20° W	1	2.0	
October 23 (ii)	08 04	08 22	08 35	05° S	40° W	2	1.6	
November 27	12 00	..	12 07	22° N	12° W	1	1.3	
December 1	11 44*	..	11 55	19° S	18° W	Probably 1	1.2	
December 8	14 37*	..	14 55	04° S	48° E	Probably 1	1.6	
December 16	08 00*	..	08 06	24° N	08° E	1	2.8	

*Time when flare was first observed and not beginning of flare.

Sudden disappearance of prominences and H-alpha dark markings.

Details of sudden disappearance of prominences and H-alpha absorption markings observed during the period are given in the following table:

TABLE III

Nature of phenomenon	Date and time of phenomenon when last seen		Coordinates of phenomenon		Remarks
	Date	Time (IST) h. m.	Mean latitude	Mean longitude	
Dark Marking	11th Nov., 1958	10 30	10°N	30°W	Part of the dark marking disappeared between 11th and 12th November.
Dark Marking	1st Dec., 1958	14 20	13°S	22°W	Major portion of the dark marking disappeared between 1st & 2nd of December.
Prominence	6th Dec., 1958	11 00	46°N	90°E	Disappeared between 6th and 7th December.
Dark Marking	29th Dec., 1958	16 00	14°N	32°W	Major portion of the dark marking disappeared between 29th and 30th December.

Prominences projected on the disc as absorption markings.

During the period under review, photographs of the sun's disc in H-alpha line were secured on 115 days at Kodaikanal. Spectroheliograms were also received for 60 days from the Mount Wilson Observatory and for 48 days from the Meudon Observatory.

The mean daily areas in millionths of the sun's visible hemisphere (uncorrected for foreshortening) and the mean daily numbers of H-alpha dark markings as derived from the combined photographs are given below. The means are corrected for incomplete or imperfect observations, the total of 179 days for which plates were available being reduced to $177\frac{1}{2}$ effective days.

Combined data		
	Mean daily area (millionths of the sun's visible hemisphere)	Mean daily numbers
North	2,608	17.25
South	2,254	13.78
TOTAL	4,862	31.03

Compared to the previous half-year's values, these figures show an increase of 2.5% in areas and 12.1% in numbers.

The figures based on only Kodaikanal photographs are also given below for comparison with similar data.

Kodaikanal data only		
	Mean daily area (millionths of the sun's visible hemisphere)	Mean daily numbers
North	2,584	17.11
South	2,259	14.09
TOTAL	4,843	31.20

The distribution of the areas of the markings in five-degree ranges of latitude as obtained from the combined data is shown in diagram II. The activity in the northern hemisphere is maximum over a broad belt extending from latitude 15° to latitude 40° with two peaks at about latitude 17° and latitude 38° . In the southern hemisphere the maximum activity is in the latitude belt 20° - 35° .

The distribution of total areas and numbers of the dark markings east and west of the sun's axis is as follows :—

Combined data			
	East	West	Percentage East
Total area (millionths of the sun's visible hemisphere)	3,74,144	4,90,189	43.2
Total numbers	2,623	2,885	47.6

The western preponderance in areas and numbers noticed during the previous half-year is maintained.

Calcium Flocculus.

During the half-year under review Calcium Flocculus spectroheliograms were available at Kodaikanal on 109 days. Spectroheliograms for 62 days were obtained from the Mount Wilson Observatory and for 47 days from the Meudon Observatory. In all complete observations were available for $172\frac{1}{2}$ effective days.

DIAGRAM II

Mean Areas of H-alpha Absorption Markings
July - December 1958



The mean daily areas (in millionths of the sun's visible hemisphere—uncorrected for foreshortening) calculated from the combined data are given in the following table:

		Combined data
		Mean daily area (millionths of the sun's visible hemisphere)
North	.	13,290
South	.	12,342
TOTAL	.	25,632

Compared to the previous half-year's value there is a decrease of 7.9% in the mean daily area.

The distribution of flocculi east and west of the sun's axis of rotation is as follows :—

	East	West	Percentage east
Total area (in millionths of the sun's visible hemisphere)	2,253,130	2,177,971	50.8%

Our thanks are due to the cooperating observatories for the photographs supplied by them.

Special I. G. Y. data are given in tables IV to IX.

TABLE IV
Surges, Eruptive Prominence and Active Prominence Regions

Date	Phenomenon*	Importance	Time I.S.T.		Position (Heliographic)		Direction of Outflow	Remarks
			Begin	End	Latitude	Long. diff. from CM.		
1958								
7th September	APR	1	0755	1200	27°N	90°W	rs	AJ.
10th October	APR	2	0740	1115	10 S	90 E	r	L.
13th October	DSD	1	0755	0830	42 N	60 E	..	A.
23rd October	APR	1	0740	..	20 S	90 W	rn	Q. Activity ended between 0840 & 0930.
3rd November	DSD	1	0755	0830	20 S	3 E	..	G.
29th November	APR	1	0735	1435	50 N	90 W	rn	L.
1st December	BSL	1	0810	0830	10 N	90 W	rn	Probably B.
3rd December	BSL	1	1530	1545	15 N	90 E	r	
21st December	BSL	1	1156	..	6 N	90 E	r	End could not be observed due to clouds.
22nd December	EPL	1	1155	1212	20 S	90 E	r	A.
31st December	APR	2	0735	1040	40 S	90 W	rn	Q.

*CODE :— DSD=Dark surge on disk ; BSL=bright surge at limb ; APR=active prominence region ; BSD=bright surge on disk ; AFR=active filament region.

TABLE V

Flare Patrol Hours (Spectroheliograph)

Month & Date	Period of Watch (IST)	Month & Date	Period of Watch (IST)
July, 1958		September 1958	
5th	0740—0840 ; 0945—1000 ; 1040—1100 ; 1130—1150.	1st	0940—0950 ; 1435—1445.
7th	0730—0830.	2nd	0810—0830 ; 0850—0910 ; 0930—1000 ; 1030—1100 ; 1412—1420.
13th	0855—0920 ; 0930—0940 ; 1030—1100.	3rd	0745—0845 ; 0930—1000 ; 1030—1100.
17th	0900—0930 ; 1030—1050.	4th	0730—0830 ; 0930—1000.
18th	0940—1000 ; 1100—1125 ; 1130—1140.	5th	0735—0830.
19th	1400—1430.	6th	0900—0910 ; 1005—1020 ; 1030—1100.
20th	0830—1000 ; 1030—1100 ; 1130—1200 ; 1400—1430 ; 1530—1600.	7th	0745—0830 ; 0930—1000 ; 1030—1100 ; 1130—1200.
21st	0740—0830 ; 0930—1000 ; 1030—1100 ; 1530—1600.	8th	0915—1000.
23rd	0730—0830 ; 0930—0935 ; 1030—1100 ; 1135—1200 ; 1415—1425.	9th	0730—0830 ; 0930—1000 ; 1030—1100 ; 1130—1155.
24th	0740—0820 ; 0930—0945 ; 1030—1100 ; 1420—1440.	10th	0730—0830 ; 0930—1000 ; 1030—1035.
25th	0730—0830 ; 0930—1000 ; 1030—1100 ; 1130—1140.	11th	0730—0830 ; 0930—1000 ; 1030—1100 ; 1130—1200 ; 1445—1450 ; 1530—1600.
26th	0730—0830 ; 0930—1000 ; 1030—1100.	12th	0805—0905 ; 0930—1000.
28th	0740—0830 ; 0930—1000 ; 1048—1100 ; 1130—1200.	13th	0730—0830 ; 0930—1000 ; 1040—1050 ; 1050—1100.
29th	0805—0810.	14th	0730—0830 ; 0930—1000 ; 1030—1100 ; 1130—1150.
30th	0830—1000 ; 1040—1100 ; 1130—1200 ; 1400—1430 ; 1500—1535.	15th	0730—0830 ; 0930—1005.
31st	0910—1000.	16th	0820—0836 ; 0850—0900 ; 0930—0955 ; 1030—1038.
August 1958		17th	0800—0900 ; 1010—1020 ; 1030—1050.
1st	0730—0830 ; 0930—1000.	18th	0815—0915 ; 0945—1000.
5th	1125—1135.	19th	0730—0830.
6th	0730—0830.	20th	0745—0815 ; 0825—0835 ; 0930—0955.
8th	0820—0840.	22nd	0740—0830 ; 0930—1000 ; 1030—1058 ; 1130—1135 ; 1145—1200.
11th	1030—1050.	24th	0940—1000 ; 1035—1050.
14th	0945—1005.	25th	0820—0940 ; 1030—1100 ; 1130—1200.
18th	0905—0910 ; 0930—0940 ; 1030—1045.	26th	0935—1000.
24th	0730—0830 ; 0930—1000 ; 1030—1100 ; 1420—1430.	27th	0730—0830 ; 0930—1000 ; 1030—1050.
25th	0820—0845.	28th	0740—0840.
28th	0730—0830.	30th	0730—0830 ; 0930—1000 ; 1030—1100.
31st	0815—0845.	October 1958	
		1st	0745—0810 ; 1042—1100 ; 1135—1200.

TABLE V—*contd.**Flare Patrol Hours (Spectroheliograph)*

Month & Date	Period of Watch (IST)	Month & Date	Period of Watch (IST)
October 1958— <i>contd.</i>		November 1958— <i>contd.</i>	
2nd . . .	0735—0830.	14th . . .	0840—0848 ; 1125—1140.
3rd . . .	0930—1015 ; 1045—1100 ; 1130—1140.	15th . . .	0800—0830 ; 0930—1000 ; 1030—1100 ; 1130—1200.
8th . . .	0810—0845 ; 0930—0955 ; 1045—1055.	16th . . .	0730—0830.
10th . . .	0740—0745 ; 0805—0845 ; 0930—1000 ; 1030—1120.	17th . . .	0800—0830 ; 0930—1000 ; 1030—1055 ; 1150—1200 ; 1530—1600.
11th . . .	0740—0830 ; 0930—1000 ; 1035—1040.	18th . . .	0730—0840 ; 0930—1000 ; 1030—1100 ; 1130—1145 ; 1400—1430.
13th . . .	0740—0830 ; 0930—1000.	23rd . . .	0830—0835.
14th . . .	0800—0900 ; 0930—1000 ; 1030—1100.	24th . . .	0730—0830 ; 0930—1000 ; 1030—1100 ; 1130—1200.
18th . . .	0815—0835 ; 0950—1000 ; 1030—1100.	25th . . .	0745—0845.
19th . . .	0745—0825 ; 0930—0955 ; 1030—1045 1145—1155.	26th . . .	0740—0830.
21st . . .	0745—0830, 0930—1000, 1030—1045.	27th . . .	0735—0830 ; 0930—1000 ; 1035—1100 ; 1130—1200.
23rd . . .	0740—0840 ; 0930—0955 ; 1030—1045.	28th . . .	0730—0800.
24th . . .	0840—0850	29th . . .	0735—0835 ; 0930—1000 ; 1030—1100 ; 1130—1200 ; 1430—1445.
25th . . .	0900—0910 ;	30th . . .	0730—0830 ; 0920—1000 ; 1130—1200.
26th . . .	0800—0810 ; 1410—1415.	December 1958	
27th . . .	0840—0845 ; 1435—1450 ; 1455—1500.	1st . . .	0735—0835 ; 0930—1000 ; 1030—1035 ; 1140—1155 ; 1420—1425.
28th . . .	1105—1110 ; 1125—1135 ; 1420—1430.	2nd . . .	0835—0850.
29th . . .	0755—0830 ; 0930—0940.	3rd . . .	0730—0830 ; 0930—1000 ; 1410—1420 ; 1530—1600.
November 1958		6th . . .	0735—0835 ; 0930—1000 ; 1030—1100.
1st . . .	0825—0835 ; 0940—1000 ; 1055—1105.	7th . . .	0730—0815 ; 0900—0915 ; 0930—1000 ; 1030—1100 ; 1130—1200 ; 1430—1445 ; 1530—1545.
3rd . . .	0730—0830.	8th . . .	1425—1447.
4th . . .	0730—0830 ; 0950—1000 ; 1050—1100 ; 1130—1140.	9th . . .	1425—1442.
5th . . .	0740—0830 ; 0930—0950.	11th . . .	0940—1015 ; 1535—1540.
6th . . .	0835—0905 ; 0930—1000 ; 1030—1100 ; 1130—1200 ; 1430—1440.	13th . . .	1410—1425 ; 1535—1540.
7th . . .	0730—0735 ; 0800—0830 ; 0940—1000.	16th . . .	0745—0830 ; 0946—0955 ; 1130—1135 ; 1145—1200 ; 1415—1430.
8th . . .	0730—0830 ; 1025—1035 ; 1045—1055.	17th . . .	1040—1045 ; 1144—1150 ; 1444—1450.
9th . . .	0735—0830 ; 0930—0950.	18th . . .	0735—0835 ; 0935—0940 ; 1030—1100 ; 1130—1140 ; 1405—1435 ; 1445—1450.
10th . . .	0735—0830 ; 1020—1030.		
11th . . .	0830—0900 ; 0930—1000.		
12th . . .	0800—0845.		

TABLE V—*contd.**Flare Patrol Hours (Spectroheliograph)*

Month & Date	Period of Watch (IST)	Month & Date	Period of Watch (IST)
December 1958— <i>contd.</i>		December 1958— <i>contd.</i>	
19th . . .	1540—1550.	26th . . .	0843—1000 ; 1425—1500.
19th . . .	0850—1000 ; 1030—1100 ; 1130—1200.	27th . . .	0730—0830 ; 0930—1000 ; 1030—1100 ; 1130—1200 ; 1400—1430 ; 1530—1600.
20th . . .	0735—0830 ; 0930—1000 ; 1030—1100.	28th . . .	0735—0830 ; 0930—1000 ; 1030—1100 ; 1130—1200 ; 1400—1430 ; 1540—1600.
21st . . .	0735—0835 ; 0930—1000 ; 1030—1100. 1130—1159 ; 1500—1515.	29th . . .	0735—0830 ; 0945—1000 ; 1030—1100 ; 1130—1200 ; 1405—1430 ; 1530—1600.
22nd . . .	0735—0830 ; 0930—1000 ; 1150—1212.	30th . . .	0735—0830 ; 0930—1000 ; 1030—1100 ; 1130—1200 ; 1405—1430 ; 1530—1535 ; 1548—1556.
23rd . . .	0730—0830 ; 0830—0845.	31st . . .	0730—1000 ; 1030—1100 ; 1130—1200 ; 1410—1425.
24th . . .	0730—0830 ; 0930—1000 ; 1030—1100 ; 1130—1140 ; 1155—1200 ; 1450—1510.		
25th . . .	0740—0840 ; 0930—1000 ; 1030—1100 ; 1130—1140 ; 1155—1200 ; 1450—1510.		

TABLE VI

List of Spectroheliograms obtained at Kodaikanal

Month & Date	H-alpha (IST)	K-Floccu- lus (IST)	K-Promi- nence (IST)
July, 1958	H. M.	H. M.	H. M.
5th	07 40 07 48 11 34 11 41	07 54 07 56 11 46 14 32	08 02 08 06 11 52 14 37
7th	07 32 07 37 09 11 09 15	07 44 07 47	07 51 07 57
13th	07 48 09 37 10 15	09 09 09 11 ..	09 20 07 57 ..
17th	08 47 08 51	08 58 09 01	09 47 09 14
19th	13 58 14 01	14 11 ..	14 16 ..
20th	08 23 09 07 09 49 11 22 14 31	08 45 08 49 11 33 14 35 ..	08 55 09 01 11 36 14 39 ..

TABLE VI—*contd.*

Month & Date	H-alpha (IST)	K-Floccu- lus (IST)	K-promi- nence (IST)
	H. M.	H. M.	H. M.
July 1958— <i>contd.</i>			
21st	07 44 08 21 11 34 14 46	07 55 07 57 11 40 14 57	08 02 08 14 11 44 15 01
23rd	07 44 07 51	07 59 08 02	08 08 08 16
24th	07 36 08 59 14 27	07 42 07 47 14 34	07 52 07 54 14 50
25th	07 49 07 52	07 59 08 01	08 06 08 12
26th	07 37 07 41	07 47 07 49	07 53 07 57
28th	07 50 07 56 09 18 11 14	08 24 08 27 11 29 ..	08 11 08 20 11 20 ..
30th	09 13 09 20 14 21	09 24 09 32 14 41	08 11 09 45 14 46
31st	08 04 09 25 09 31	08 22 09 21 11 23	09 05 09 12 ..
August, 1958			
1st	07 35 07 42 08 46	07 53 07 56 ..	07 01 08 07 ..
5th	08 39 10 31	10 46 10 47	....
6th	07 41 07 46	07 56 07 58	08 03 08 09
8th	08 37	..	..
11th	10 39 10 43	10 49 12 07	11 48 12 05
18th	10 08 12 12	10 17 10 33	10 27 11 26
19th	08 40	..	..
24th	07 35 07 39	07 45 07 47	07 53 08 00
25th	08 47 10 06	08 56 09 21	09 48 09 55
28th	07 35 07 39	07 47 07 49	07 54 08 01
31st	08 51	..	..

TABLE VI—*contd.*

Month & Date	H-alpha (IST)	K-Floccu- lus (IST)	K-Promi- nence (IST)
	H. M.	H. M.	H. M.
September 1958			
1st	13 53 13 58	....	....
2nd	08 24 09 03	09 07 09 09	09 15 09 20
rd	08 23 08 26	08 33 08 35	08 43 08 47
4th	07 35 07 39	07 44 07 45	07 49 07 53
5th	07 36 07 41 ..	07 48 07 50 ..	07 54 07 58 08 05
6th	10 12 10 16	10 23 10 25	10 29 10 32
7th	08 10 08 15 11 18	08 22 08 24 11 39	08 29 08 33 11 42
8th	09 28 09 35	09 43 09 45	09 50 09 56
9th	08 03 08 34 11 30	08 13 08 28 11 36	08 18 08 24 11 47
10th	07 40 07 47	07 54 07 57	08 01 08 05
11th	07 34 07 37 11 20 15 00	07 42 07 44 11 33 15 20	07 48 07 52 11 30 15 27
12th	08 17 08 55	08 25 08 30	08 35 ..
13th	07 37 07 41	07 46 07 48	07 52 07 57
14th	08 08 08 12 11 28	08 18 08 21 11 35	08 24 08 30 11 40
15th	07 35 08 00	07 42 07 45	07 48 07 53
16th	08 24 08 27	08 33 08 40	08 47 08 52
17th	08 15 08 21	08 28 09 35	08 35 08 38
18th	08 13 08 46	08 26 08 35	08 30 08 38
19th	08 02 08 07	08 16 08 18	08 22 08 27

TABLE VI—*contd.*

Month & Date	H-alpha (IST)	K-Floccu- lus (IST)	K-Promi- nence (IST)
	H. M.	H. M.	H. M.
September, 1958— <i>contd</i>			
20th	08 31 09 31	08 49 08 53	08 59 09 06
22nd	07 47 08 34 10 39	07 59 08 27 ..	08 04 08 06 10 46
24th	09 55 10 01 12 02 14 26	10 07 10 10 14 35 ..	10 16 10 21
25th	08 42 08 47 11 50	08 52 08 53 ..	08 57 09 01 ..
27th	07 34 07 38	07 43 07 45	07 51 07 55
28th	07 59 08 26	08 05 08 22	08 10 08 19
30th	07 33 07 37	07 43 07 45	07 49 07 53
October, 1958			
1st	11 06 11 11	11 36 11 38	11 29 11 33
2nd	07 06 07 45	07 49 07 52	07 56 08 07
3rd	09 06 10 07	10 22 10 23	10 32 10 38
8th	08 04 08 07	08 13 08 14	08 18 08 22
10th	07 46 09 05 ..	08 47 09 00 11 15	08 51 08 57 11 04
11th	07 31 07 36	07 43 07 45	07 50 07 54
13th	07 55 08 01	08 07 08 09	08 13 08 17
14th	08 16 08 22	08 27 08 29	08 33 08 40
18th	08 23 08 28	08 31 08 34	09 59 10 06
20th	07 47 07 51 11 23	08 12 08 14 11 37	08 04 08 09 11 34
21st	07 33 07 46	07 54 07 57	08 04 08 09

TABLE VI—*contd.*

Month & Date	H-alpha (IST)	K-Floccu- lus (IST)	K-Promi- nence (IST)
	H. M.	H. M.	H. M.
October, 1958— <i>contd.</i>			
23rd	07 40 07 45 (0804 to 0838—flare section);	07 51 07 54 ..	07 59 08 47 ..
25th	09 03 09 08	....	....
26th	08 08 14 04 14 13	14 21 14 29 ..	14 44
27th	11 40 14 41	12 41 12 48	12 59 ..
29th	07 56 08 00	08 08 08 10	08 14 08 30
November 1958			
1st	09 51 10 32	10 57 10 42	10 46 10 55
3rd	07 54 07 58	08 05 08 07	08 12 08 17
4th	07 32 07 35	07 40 07 41	07 45 07 49
5th	07 44 08 09	07 50 07 53	07 57 08 01
6th	07 39 07 44 11 12 15 36	07 49 07 51 11 19 11 40	07 55 07 59 11 33 ..
7th	07 35 08 34 11 34	07 59 11 02 ..	09 02 10 52 ..
8th	07 36 08 44	07 41 07 44	07 48 07 52
9th	07 42 07 46	07 53 07 55	07 59 08 07
10th	07 37 07 44	07 52 07 56	08 01 08 05
11th	08 41 08 45 11 34	08 51 08 52 ..	08 56 09 01 ..
12th	08 10 09 06 11 07	08 19 08 34 ..	08 24 08 29 ..
14th	11 20 11 24	11 29 11 32	11 38 ..

TABLE VI—*contd.*

Month & Date	H-alpha (IST)	K-Floccu- lus (IST)	K-Promi- nence (IST)
November, 1958— <i>contd.</i>	H. M.	H. M.	H. M.
15th	08 19 08 48 11 04	08 26 08 41 11 10	08 34 08 39 11 14
16th	07 40 07 48	08 36 08 38	....
17th	09 08 09 12 11 23	09 21 09 35 ..	09 24 09 32 ..
18th	07 41 07 44 11 33 14 04	07 49 07 51 11 33 14 11	07 55 07 59 11 37 14 15
23rd	08 35 08 47	08 55 10 00	....
24th	07 35 07 47 11 12	07 53 07 55 11 22	07 59 08 03 11 28
25th	07 33 07 37 08 06 14 39	07 46 07 48	07 52 07 59
26th	07 54 08 22	08 31 08 33	08 39 08 43
27th	07 33 07 36 11 35	07 42 07 45 11 44	07 49 07 53 11 50
28th	07 42 08 55	09 06 09 08	09 13 10 16
29th	07 32 07 36 11 25	07 40 07 43 11 32	07 46 07 51 11 35
30th	07 43 07 47 11 29	07 57 08 00 11 36	08 05 08 19 11 40
December 1958			
1st	07 34 07 40 08 19 14 22	07 48 07 51 11 53 14 15	07 55 07 59 14 11 ..
2nd	08 46 09 12	09 19 09 26	09 44 ..
3rd	07 35 07 38 15 30	07 45 07 49 15 40	07 53 07 58 15 36
6th	07 35 07 40	07 45 07 48	07 54 08 07

TABLE VI—*contd.*

Month & Date	H-alpha (IST)	K-Floccu- lus (IST)	K-Promi- nence (IST)
	H. M.	H. M.	H. M.
December, 1958— <i>contd.</i>			
7th	07 36 07 40 11 34 15 28 ..	07 46 07 56 08 19 11 39 15 39	09 07 09 12 11 49 .. 15 37
8th	14 28 14 32	14 38 14 40	14 44 14 49
9th	14 36 14 42	....	....
11th	09 46 09 54	09 59 10 03	10 13 10 17
16th	07 37 07 41 (0804— 0814— flare sec- tion) 14 28	07 49 07 52 14 33	07 56 08 03 14 36
17th	11 42 12 09	....	....
18th	07 41 07 46 11 27 14 19 14 53	07 53 07 55 14 25	08 00 14 32
19th	08 59 09 03	09 11 09 13	09 19 09 23
20th	07 34 07 38	07 44 07 48	07 53 07 58
21st	07 28 07 33 11 32 15 01	07 38 07 40 11 39 15 06	07 45 07 50 11 50 15 11
22nd	07 43 07 47 ..	07 55 07 58 08 59	08 03 08 08 12 05
23rd	07 38 07 49 08 31	08 07 08 11 ..	08 18 08 24 ..
24th	07 35 07 39 11 31	07 48 07 50 11 40	07 55 07 59 ..
25th	07 42 07 52 11 33 15 10	07 57 08 00 14 59 ..	08 05 08 10 15 02 ..

TABLE VI—*concl'd.*

Month & Date:	H-alpha (I.S.T.)	K-Floccu- lus (I.S.T.)	K-Promi- nence (I.S.T.)
December, 1958 <i>concl'd.</i>	H. M.	H. M.	H. M.
26th	08 45 08 51	08 58 09 00	09 11 09 53
27th	07 35 07 39 11 30 14 16	07 44 07 47 11 47 14 20	07 51 07 57 11 53 14 25
28th	07 36 07 41 11 46 14 12	07 50 07 52 11 52 14 19	07 57 08 00 11 55 14 22
29th	07 40 07 45 11 20 14 20	07 53 07 55 11 25 14 26	08 00 08 04 11 29 14 29
30th	07 36 07 40 11 38	07 48 07 50 11 42 14 41	07 54 07 57 11 45 14 35
31st	07 52 07 57 11 25	08 03 08 05 ..	08 10 08 14 10 08 10 12 11 11

} Section

TABLE VII

List of Photoheliograms obtained at Kodaikanal

Month & Date	Time of picture (I.S.T.)	Quality of image	Remarks	Month & Date	Time of Picture (I.S.T.)	Quality of image	Remarks
July, 1958—	H. M.			July, 1958— <i>concl'd.</i>	H. M.		
4th	08 40	Fair	F	21st	07 55 10 49 14 41	Fair Fair Fair	F H H
5th	08 03	Good	F	23rd	07 58	Fair	F
7th	08 00 10 40	Good Fair	F H	24th	08 19 14 26	Fair Fair	F H
13th	08 58	Fair	F	25th	07 48 11 05	Fair Fair	F H
17th	08 50	Good	F	26th	08 06 10 35	Fair Fair	H H
19th	14 17	Fair	F	28th	08 45	Fair	F
20th	08 45 11 29 14 22	Fair Fair Fair	F H H				

TABLE VII—*contd.*

Month & Date	Time of Picture (I.S.T.)	Quality of image	Remarks	Month & Date	Time of Picture (I.S.T.)	Quality of image	Remarks
July, 1958—	H. M.			September, 1958—	H. M.		
30th	11 00 14 25	Fair Fair	H H	12th	08 54 14 42	Fair Fair	F H
31st	09 00	Fair	F	13th	08 16 11 24	Fair Fair	F H
August, 1958—				14th	08 20 10 30	Fair Fair	F H
1st	07 41	Good	F	15th	07 45	Good	F
5th	10 45	Fair	F	16th	08 20	Excellent	F
6th	08 10	Good	F	17th	08 22	Good	F
8th	08 33	Good	F	18th	08 32	Good	F
11th	10 30	Good	F	19th	08 10	Good	F
14th	09 55	Good	F	20th	08 58	Good	F
18th	09 40	Good	F	22nd	08 19 11 15	Good Fair	F H
24th	07 44	Fair	F	24th	09 56 14 22	Good Fair	F H
25th	08 47	Good	F	25th	08 52 09 20 11 55	Fair Good Poor	F F H
26th	11 06	Good	F	27th	08 02 10 46	Fair Good	F F
28th	08 07	Good	F	28th	08 10	Good	F
31st	08 10 08 32	Fair Fair	F F	30th	07 44	Good	F
September, 1958—				October, 1958—			
1st	09 45	Good	F	1st	11 10	Fair	F
2nd	08 20	Fair	F	2nd	08 08	Good	F
3rd	08 28 10 47	Good Good	H H	3rd	09 40	Good	F
4th	07 52 10 52	Good Good	F H	8th	08 07	Fair	F
5th	08 01	Good	F	10th	08 45 10 33	Good Fair	F F
6th	10 15	Good	F	11th	07 42 10 42	Fair Fair	F F
7th	08 05	Fair	F	13th	08 01	Good	F
8th	10 01 11 02	Good Fair	F H	14th	08 34 10 54	Fair Fair	F F
9th	08 08 10 43	Good Fair	F F	18th	08 20 11 24	Good Excellent	F H
10th	07 42	Good	F				
11th	07 47 10 32	Good Fair	F F				

TABLE VII—*contd.*

Month & Date	Time of Picture (I.S.T.)	Quality of image	Remarks	Month & Date	Time of Picture (I.S.T.)	Quality of image	Remarks
October, 1958—	H. M.			November, 1958—	H. M.		
20th	08 30 10 37	Good Good	F F	16th	07 45	V. Poor	F
21st	07 57 11 27	Good Fair	F H	17th	08 40 10 35	Fair Fair	F H
23rd	08 30 10 42	Fair Poor	F H	18th	07 47 10 27	Good Fair	F H
24th	08 43	Fair	F	23rd	09 58	Fair	F
25th	09 05	Fair	F	24th	07 50 10 42	Excellent Fair	F H
26th	13 00 14 15	Fair Fair	F H	25th	07 44 14 30	Excellent Fair	F H
27th	08 40 14 34	Fair Fair	F H	26th	07 43	Good	F
28th	08 39 11 39	Fair Fair	F F	27th	08 00 10 52	Fair Good	F F
29th	08 18	Fair	F	28th	08 43	Good	F
November, 1958—				29th	07 36 10 45 14 40	Excellent Fair Good	F H H
1st	10 00 09 30	Fair Fair	F F	30th	07 50 10 30	Good Fair	F H
3rd	07 31 08 40	Good Good	F F	December, 1958—			
4th	07 55 08 37	Good Good	F H	1st	08 05	Excellent	F
5th	07 55	Fair	F	2nd	08 48	Good	F
6th	08 02 10 44 14 34	Fair Fair Fair	F F H	3rd	07 38 07 32 14 12	Excellent Good Fair	F H H
7th	07 47 09 15 10 45	Fair Fair Fair	F F H	6th	07 54 11 05	Excellent Fair	F H
8th	08 03 10 44	Fair Fair	F H	7th	07 50 10 45 14 50	Good Good Good	F H H
9th	07 48	Fair	F	8th	14 20 14 40	Fair Fair	F F
10th	07 57	Fair	F	9th	14 35	Fair	F
11th	07 35	Fair	F	11th	09 41 10 15	Good Good	F F
12th	08 23	Fair	F	13th	14 22	Fair	F
th	08 51 11 28	Good Fair	F H	16th	07 59 08 34 14 31	Poor Fair Fair	F F F
15	08 30 10 30	Fair Fair	F F				

TABLE VII—*contd.*

Month & Date	Time of Picture (I.S.T.)	Quality of image	Remarks	Month & Date	Time of Picture (I.S.T.)	Quality of image	Remarks
December, 1958—	H. M.			December 1958—	H. M.		
17th	09 58 14 47	Fair Good	F H	26th	09 00 14 20	Good Good	F H
18th	08 02 11 58 14 31	Good Poor Good	F H H	27th	09 07 10 40 14 22	Excellent Poor Fair	F H H
19th	08 55 10 20	Good Good	F F	28th	07 45 08 18 14 25	Good Good Fair	F F H
20th	07 48 08 20	Fair Good	F F	29th	07 43 10 46 15 32	Good Fair Good	F H H
21st	07 37 10 35	Good Fair	F H	30th	07 53 11 51 14 21	Excellent Fair Poor	F H H
22nd	07 59 12 14	Good Poor	F H	31st	08 04 10 43	Good Good	F F
23rd	08 40	Fair	F				
25th	08 08 10 56 14 58	Excellent Fair Poor	F H H				

TABLE VIII

Sunspot Relative Numbers

Month & Date	Time (I.S.T.)	Number of groups	Number of Spots	Image quality classified in 5 grades
July, 1958—	H. M.			
4th	08 40	11	102	F
5th	08 03	11	165	G
7th	08 00	10	142	G
13th	08 58	10	48	F
17th	08 50	8	50	G
19th	14 17	11	94	F
20th	08 45	11	67	F
21st	07 55	14	78	F
23rd	07 58	8	39	F

TABLE VIII—*contd.*

Month & Date	Time (I.S.T.)	Number of groups	Number of spots	Image qua- lity classi- fied in 5 grades
July, 1958—	H. M.			
24th	08 19	11	108	F
25th	07 48	9	87	F
26th	08 06	8	95	F
28th	08 02	7	123	F
30th	08 45	10	128	F
31st	09 00	10	208	F
August, 1958—				
1st	07 41	11	165	G
5th	10 45	14	83	F
6th	08 40	16	73	G
8th	08 33	9	130	G
11th	10 30	10	83	G
14th	09 55	7	86	G
18th	09 40	9	130	G
24th	07 44	10	114	F
25th	08 47	10	120	G
26th	11 06	10	94	G
28th	08 07	12	106	G
31st	08 10	8	91	F
September, 1958—				
1st	09 45	8	163	G
2nd	08 20	12	172	F
3rd	08 28	13	109	G
4th	08 52	14	90	G
5th	08 01	14	97	G
6th	10 05	14	82	G
7th	08 05	10	113	F
8th	10 01	8	70	G
9th	08 08	7	83	G
10th	07 42	8	82	G
11th	07 47	12	136	G

TABLE VIII—*contd.*

Month & Date										Time (I.S.T.)	Number of groups	Number of spots	Image qua- lity classi- fied in 5 grades
										H. M.			
September, 1958—													
12th	.	.	.	.	.	.	.	.	.	08 54	14	132	F
13th	.	.	.	.	.	.	.	.	.	08 16	15	121	F
14th	.	.	.	.	.	.	.	.	.	08 20	12	130	F
15th	.	.	.	.	.	.	.	.	.	07 45	7	124	G
16th	.	.	.	.	.	.	.	.	.	08 20	8	117	E
17th	.	.	.	.	.	.	.	.	.	08 22	9	127	G
18th	.	.	.	.	.	.	.	.	.	08 32	9	109	G
19th	.	.	.	.	.	.	.	.	.	08 10	6	87	G
20th	.	.	.	.	.	.	.	.	.	08 58	6	73	G
22nd	.	.	.	.	.	.	.	.	.	08 19	7	78	G
24th	.	.	.	.	.	.	.	.	.	09 56	9	70	G
25th	.	.	.	.	.	.	.	.	.	08 52	9	87	F
27th	.	.	.	.	.	.	.	.	.	08 02	11	80	F
28th	.	.	.	.	.	.	.	.	.	08 10	13	100	G
30th	.	.	.	.	.	.	.	.	.	07 44	13	100	G
October, 1958—													
1st	.	.	.	.	.	.	.	.	.	11 10	11	71	F
2nd	.	.	.	.	.	.	.	.	.	08 08	12	116	G
3rd	.	.	.	.	.	.	.	.	.	09 40	12	102	G
8th	.	.	.	.	.	.	.	.	.	08 07	5	31	F
10th	.	.	.	.	.	.	.	.	.	08 45	5	37	G
11th	.	.	.	.	.	.	.	.	.	07 42	9	39	F
13th	.	.	.	.	.	.	.	.	.	08 01	7	51	G
14th	.	.	.	.	.	.	.	.	.	08 34	8	58	F
18th	.	.	.	.	.	.	.	.	.	08 20	9	125	G
20th	.	.	.	.	.	.	.	.	.	08 30	10	151	G
21st	.	.	.	.	.	.	.	.	.	07 57	10	123	G
23rd	.	.	.	.	.	.	.	.	.	08 30	13	83	F
24th	.	.	.	.	.	.	.	.	.	08 43	12	91	
25th	.	.	.	.	.	.	.	.	.	09 05	12	75	F

TABLE VIII—*contd.*

Month & Date												Time (I.S.T.)	Number of groups	Number of Spots	Image qua- lity classi- fied in 5 grades
												H. M.			
October, 1958—															
26th	.	.	.	.	.	.	.	.	.	.	.	13 00	12	68	F
27th	.	.	.	.	.	.	.	.	.	.	.	08 40	9	49	F
28th	.	.	.	.	.	.	.	.	.	.	.	08 39	12	49	F
29th	.	.	.	.	.	.	.	.	.	.	.	08 18	11	105	F
November, 1958—															
1st	.	.	.	.	.	.	.	.	.	.	.	10 00	10	116	F
3rd	.	.	.	.	.	.	.	.	.	.	.	07 31	10	104	G
4th	.	.	.	.	.	.	.	.	.	.	.	07 55	11	131	G
5th	.	.	.	.	.	.	.	.	.	.	.	07 55	9	144	F
6th	.	.	.	.	.	.	.	.	.	.	.	08 02	7	72	F
7th	.	.	.	.	.	.	.	.	.	.	.	07 47	7	37	F
8th	.	.	.	.	.	.	.	.	.	.	.	08 03	8	35	F
9th	.	.	.	.	.	.	.	.	.	.	.	07 48	9	45	F
10th	.	.	.	.	.	.	.	.	.	.	.	07 57	6	15	F
11th	.	.	.	.	.	.	.	.	.	.	.	08 35	9	16	F
12th	.	.	.	.	.	.	.	.	.	.	.	08 23	7	14	F
14th	.	.	.	.	.	.	.	.	.	.	.	08 51	7	15	G
15th	.	.	.	.	.	.	.	.	.	.	.	08 30	6	15	F
16th	.	.	.	.	.	.	.	.	.	.	.	07 45	8	22	VP
17th	.	.	.	.	.	.	.	.	.	.	.	08 40	5	23	F
18th	.	.	.	.	.	.	.	.	.	.	.	07 47	5	36	G
23rd	.	.	.	.	.	.	.	.	.	.	.	09 58	8	55	F
24th	.	.	.	.	.	.	.	.	.	.	.	07 50	12	83	E
25th	.	.	.	.	.	.	.	.	.	.	.	07 44	14	92	E
26th	.	.	.	.	.	.	.	.	.	.	.	07 43	13	132	G
27th	.	.	.	.	.	.	.	.	.	.	.	08 00	12	126	F
28th	.	.	.	.	.	.	.	.	.	.	.	08 43	15	173	G
29th	.	.	.	.	.	.	.	.	.	.	.	07 36	13	148	E
30th	.	.	.	.	.	.	.	.	.	.	.	07 50	11	171	G

TABLE VIII—*contd.*

Month & Date										Time (I.S.T.)	Number of groups	Number of Spots	Image qua- lity classi- fied in 5 grades
										H.M.			
December, 1958—													
1st	.	.	.	.	.	.	.	.	.	08 05	12	196	E
2nd	.	.	.	.	.	.	.	.	.	08 48	13	163	G
3rd	.	.	.	.	.	.	.	.	.	07 38	12	122	E
6th	.	.	.	.	.	.	.	.	.	07 54	13	164	E
7th	.	.	.	.	.	.	.	.	.	07 50	14	115	G
8th	.	.	.	.	.	.	.	.	.	14 20	11	109	F
9th	.	.	.	.	.	.	.	.	.	14 35	12	118	F
11th	.	.	.	.	.	.	.	.	.	09 41	11	104	G
13th	.	.	.	.	.	.	.	.	.	14 22	8	101	F
16th	.	.	.	.	.	.	.	.	.	07 59	6	79	P.
17th	.	.	.	.	.	.	.	.	.	09 58	9	23	F
18th	.	.	.	.	.	.	.	.	.	08 02	9	48	G
19th	.	.	.	.	.	.	.	.	.	08 55	6	37	G
20th	.	.	.	.	.	.	.	.	.	07 48	6	40	F
21st	.	.	.	.	.	.	.	.	.	07 37	7	36	G
22nd	.	.	.	.	.	.	.	.	.	07 59	9	47	G
23rd	.	.	.	.	.	.	.	.	.	08 40	8	48	F
24th	.	.	.	.	.	.	.	.	.	07 45	10	73	E
25th	.	.	.	.	.	.	.	.	.	08 08	11	126	E
26th	.	.	.	.	.	.	.	.	.	09 00	11	139	G
27th	.	.	.	.	.	.	.	.	.	08 07	11	131	E
28th	.	.	.	.	.	.	.	.	.	07 45	12	102	G
29th	.	.	.	.	.	.	.	.	.	07 43	12	87	G
30th	.	.	.	.	.	.	.	.	.	07 53	10	117	E
31st	.	.	.	.	.	.	.	.	.	08 04	8	77	G

TABLE IX
Positions and Classifications of Sunspot Groups

Date*	Time (I.S.T.)	Image quality	b (Heliogra- phic lati- tude) in degrees	l (Heliogra- phic longi- tude) in degrees	Type	r (Numbe of single spots
1	2	3	4	5	6	7
	H. M.					
July 4, 1958	08 40	3	-19 +09 +25 +09 +13 +20 +05 -05 -26 -24 +28	322 307 225 279 260 243 243 225 205 202 165	J J E J B J B B A D A	06 01 38 02 08 06 20 05 04 09 03
July 5, 1958	08 03	2	+09 +26 +12 +11 +22 +05 -05 +27 -23 +28 -17	309 222 276 260 237 240 220 203 201 159 216	A E J A G G A G G J A	01 50 01 11 18 28 05 30 10 05 06
July 7, 1958	08 00	2	+26 +12 +12 +22 +05 +27 -23 +32 -15 -23	224 283 260 243 214 203 201 158 192 131	B J B B B F G G J J	31 02 10 31 19 25 11 10 01 02
July 13, 1958	08 58	3	-23 +28 -22 +28 -14 +15 +39 +07 -04 -24	205 161 127 193 124 102 84 62 53 53	E A F A A J J A J A	10 10 07 05 06 01 01 04 03 01
July 17, 1958	08 50	2	-22 +15 +07 -04 -21 +15 -24 +20	24 100 58 53 55 78 98 30	J J E J B A C B	02 03 21 02 03 01 14 04

TABLE IX—contd.

1	2	3	4	5	6	7
	H. M.					
July 19, 1958	14 07	3	-21 +17 -22 +09 -04 -20 +08 +20 -15 +15 -18	128 102 96 60 52 54 38 28 353 322 322	J J D F H A A C D J J	01 01 30 22 08 02 02 18 08 01 01
July 20, 1958	08 45	3	+17 +09 -03 -20 -22 +22 +08 -15 +15 -17 -07	103 59 51 53 94 27 38 352 323 326 316	J F J A G B A D J J J	01 20 03 01 17 09 03 10 01 01 01
July 21, 1958	07 55	3	+17 +09 -03 -20 -22 +20 +08 -16 +16 -17 -07 -13 +22 -18	103 59 51 53 94 28 43 353 321 327 318 05 345 304	J F J A H B A D J J J B A J	01 23 03 01 05 10 01 14 04 01 02 04 05 04
July 23, 1958	07 58	3	+09 -03 -12 +15 -18 -04 -17 +06	56 59 360 319 323 319 303 309	E J A J J A E A	13 01 15 06 02 02 30 01
July 24, 1958	08 19	3	+09 -03 -14 +15 -18 -05 -17 +26 +19 +24 +16	58 50 360 320 324 320 306 23 27 300 268	E A D G H J F A A A H	11 01 12 13 03 01 56 04 03 03 01

TABLE IX—contd.

1	2	3	4	5	6	7
	H. M.					
July 25, 1958	07 48	3	-14 +15 -17 -03 -17 +24 +26 +16 +04	360 321 323 321 306 307 24 267 253	C H J J F A A J B	08 08 03 01 55 02 04 03 03
July 26, 1958	07 48	3	-13 +15 -03 -17 +26 +24 +17 +06	09 319 320 306 23 306 268 252	J B J J F B A H H	01 07 01 72 06 02 01 05
July 28, 1958	08 02	3	-13 -03 -15 +15 +07 +20 +27	357 322 311 265 250 282 210	A A F H G A A	03 04 78 13 12 06 07
July 30, 1958	08 45	3	+15 -15 +15 +06 +19 +27 +07 +16 -08 -23	319 310 267 251 286 227 284 226 198 199	A F D D D D A B H J	01 48 10 10 16 19 03 10 09 02
July 31, 1958	09 00	3	-15 +13 +06 +19 +27 +06 +16 -10 -24 -10	310 267 251 286 227 284 226 200 199 222	F G E E E D E E J B	39 22 23 30 29 14 24 14 01 12
August 1, 1958	07 41	2	-15 +16 +06 +21 +27 +07 +15 -10 -25 -10 +08	300 266 251 287 224 284 225 202 201 224 172	B H E E D B E D J D A	17 09 25 21 22 08 23 25 01 13 01
August 5, 1958	10 45	3	+17 +07 +27 +14	265 253 227 228	J C H D	02 09 04 10

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
August 5, 1958	13 45	3	-11 -25 -10 -25 -05 +27 +40 +20 -12 -23	206 200 228 205 196 191 178 146 133 126	J J H B B J D D G A	13 01 01 05 06 05 09 14 03 01
August 6 1958	08 10	2	+25 +14 -12 -27 -11 +23 -06 +24 +33 +20 -10 -21 +39 -23 -13 +17	233 233 209 204 230 205 196 191 187 146 131 128 166 105 88 98	J J J A J C B B B G C A B J A J	02 02 09 02 01 11 06 05 03 16 05 01 06 01 02 01
August 8, 1958	08 33	2	+25 -11 +24 -05 +44 +38 -13 -15 +21 -10 +17 -23 -14	220 208 201 199 168 165 156 145 143 130 96 102 86	J C D B B E B C A F H J J G	02 10 03 05 11 05 14 03 11 08 01 01 16
August 11, 1958	05 00	2	-10 +21 +38 -23 -14 +17 -19 -06 -11 +16	128 141 166 98 84 95 155 104 157 40	H D B E G A B B A A	06 11 03 24 21 01 07 05 02 03
August 14 1958	09 55	2	+23 -10 -24 -14 +15 +15 +41	141 134 96 85 99 45 56	A B D F B C J	02 03 29 30 05 10 07
August 18, 1958	04 10	2	-27 -13 -09 -10	88 88 72 45	D F B B	04 05 02 06

TABLE IX—contd.

1	2	3	4	5	6	7
	H. M.					
August 18, 1958	04 10	2	+18 -12 +24 -23 +10 +07 +20 +19 -18	46 07 04 358 349 322 320 294 325	A H C C B B F B G	02 07 06 01 08 05 27 08 09
August 24, 1958	07 44	3	-14 +10 +18 +23 -14 -17 +19 +08 +08 -07	08 346 322 306 325 296 297 266 255 248	J A D B C B J D B J	04 01 50 08 04 25 04 12 05 01
August 25, 1958	08 47	2	+18 +20 -14 -17 +18 +08 +08 -08 -12 +26	321 306 324 295 296 266 254 246 210 199	E G G C B C B J J J	44 20 06 23 02 14 08 01 01 01
August 26, 1958	11 06	2	+17 +20 -16 -17 +08 -08 -06 -10 +26 -08	323 307 324 295 271 256 245 211 199 195	E E J D B A B J J B	27 23 04 21 03 01 03 01 09 02
August 28, 1958	08 07	2	+17 +20 -18 +08 +10 -08 +27 -12 -11 -18 +25 +16	320 307 300 269 256 202 193 180 244 165 177 190	E E D B A E D A A J A B	05 20 14 03 01 29 15 01 07 01 03 07
August 31, 1958	08 10	3	-08 +27 -08 -17 +16 -22 +36 +18	205 196 187 167 194 176 170 155	E B E J G B J J	21 15 23 01 18 02 09 02

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
September 1, 1958	09 45	2	-08 +27 -10 -20 +15 +34 +16 +25	205 192 191 166 191 170 154 179	E B E B G B A A	35 28 31 06 36 10 08 09
September 2, 1958	08 20	3	-08 +27 -10 -19 +13 +35 +16 +26 +11 -18 -25 -14	203 193 188 167 192 168 153 178 127 112 108 94	F D E J F C A D B B A A	23 35 38 01 40 06 04 19 07 02 01 01
September 3, 1958	08 28	2	-08 +27 -09 -18 +13 +36 +27 +12 -16 -23 -13 -07 -38	203 193 188 167 194 168 178 128 114 110 96 88 95	E E E A F B D B A A B B A	20 07 22 01 30 03 10 04 02 01 02 06 01
September 4, 1958	07 52	2	-08 +27 -10 -19 +13 +36 +28 +11 -18 -27 -15 -07 -07 +17	203 193 185 167 197 169 180 131 115 109 98 88 76 81	F J B A E J D B A A D J B E	18 02 09 01 14 01 07 07 04 01 05 11 02 08
September 5, 1958	08 01	2	-08 +27 -10 -19 +13 +34 +28 +12 -27 -15 08 -09 +17 +08	202 194 185 167 196 171 179 129 106 95 86 76 75 151	E J B A D J J B A D G J J	13 02 04 01 15 01 08 08 01 04 24 03 09 04

TABLE IX—contd.

1	2	3	4	5	6	7
	H. M.					
September 6, 1958	10 05	2	-08 +27 +15 +34 +28 +12 -26 -14 -08 -09 +18 +08 -11 +20	201 193 197 170 178 128 108 94 85 76 75 151 166 39	D J D J J B A G D J G J A B	06 01 12 01 03 08 01 09 20 04 09 03 02 03
September 7, 1958	08 05	3	+34 -09 +08 +12 +12 -15 -09 +17 -08 +20	168 163 152 128 99 91 86 75 73 34	J C J B A E E D C D	01 12 01 02 02 22 35 19 04 15
September 8, 1958	10 01	2	+33 -15 -10 -08 -17 +08 -10 +21	170 93 88 75 76 153 165 34	J E E J C J J D	01 14 19 03 12 01 03 17
September 9, 1958	08 08	2	-15 -10 -08 +17 +21 +10 -10	92 89 75 76 35 92 12	E E A E E B B	22 16 01 17 22 03 02
September 10, 1958	07 42	2	-16 -10 +17 +21 +07 -11 +09 +09	92 88 73 35 96 13 55 15	E E E D B B A A	17 21 12 20 02 03 03 02
September 11, 1958	07 47	2	-16 -10 +18 +21 +08 -12 +09 +10 -08 +17 +32 -32	93 85 72 33 95 12 55 10 02 342 340 349	E E J E A A A A A A A J	28 31 16 27 09 11 04 04 01 03 01 02

TABLE IX—contd.

1	2	3	4	5	6	
	H. M.					
September 12, 1958	08 54	3	+09 -10 -17 +18 +09 -10 +22 -11 +11 -10 -31 +32 +14 -15	99 92 91 75 55 45 30 12 05 02 350 340 332 327	C E E D B A D D B A G A D D	08 17 18 09 06 01 27 21 06 01 08 01 06 03
September 13, 1958	08 16	3	-16 -09 +18 +21 +09 -12 +12 +11 +15 +32 -32 -10 -16 +20 -23	89 91 72 30 97 12 56 05 334 340 347 42 327 44 26	D E J B J F B B D A E J D B B	07 13 06 12 04 19 03 02 17 01 13 04 10 03 07
September 14, 1958	08 20	3	-16 -09 +17 +21 -12 +11 +14 -32 -10 -16 +20 -23	89 91 73 30 10 05 334 346 42 316 43 24	B E C C D A E G B F B A	04 09 03 13 32 02 26 12 07 14 04 04
September 15, 1958	07 45	2	+19 -09 +14 -32 -10 -16 -23	35 10 334 346 46 316 26	B D D G B F B	05 40 37 08 11 15 08
September 16, 1958	08 20	1	+21 -12 +15 -32 -10 -18 -22 +23	34 11 344 347 42 312 24 295	A C C H A E A A	04 23 27 07 08 29 08 11

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
September 17, 1958	08 22	2	-10 +34 -22 -10 -32 +15 -17 +23 +06	45 40 26 10 346 331 314 294 281	A A B D G E F D A	01 01 08 23 09 28 49 05 03
September 18, 1958	08 32	2	+34 -10 +16 -32 -17 -22 +23 +08 +13	41 11 333 346 314 25 294 282 260	A C E D F B D B B	01 10 21 05 42 05 17 03 05
September 19, 1958	08 10	2	-11 +16 -32 -17 +23 +13	08 333 346 314 295 260	B E E F D B	05 16 07 33 16 10
September 20, 1958	08 58	2	-12 +15 -32 -17 +23 +12	06 338 341 306 294 263	J D D F B B	01 06 04 37 15 10
September 22, 1958	08 19	2	+15 -34 -17 +21 +11 -05 -19	340 340 311 293 259 207 193	J D F D C G H	02 02 14 40 13 06 31
September 24, 1958	09 56	2	-17 +22 +13 -05 -19 +28 -12 +18 -12 -22	310 292 264 208 189 244 230 176 168 173	F D B G G B A J D A	08 12 03 12 09 09 03 03 10 01
September 25, 1958	08 52	3	-17 +22 -06 -19 +29 -12 +18 -10 -22	310 295 209 190 245 233 176 169 172	J B G G C A A B A	07 16 11 06 21 04 03 14 05

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
September 27, 1958	08 02	3	+30 -06 -18 +18 -23 -08 +09 -14 +27	241 208 189 177 169 167 254 143 147	D H G D B E C B B	07 08 08 05 12 26 09 02 03
September 28, 1958	02 40	2	-18 +30 -07 +18 -08 -22 -13 +08 +27 +14 -09	188 240 208 177 165 170 143 155 147 225 182	D C E D F B B B D B B	07 05 05 07 23 08 04 13 20 03 05
September 30, 1958	07 44	2	-18 +32 -07 +17 -11 -22 +07 +27 +13 -11 -13 -08 +17	189 238 210 182 163 176 158 148 228 184 120 102 88	G J G J D B C D A B A A A	07 02 03 03 21 12 18 21 02 04 02 03 02
October 1, 1958	11 10	3	-18 -07 +18 -11 -21 +08 +27 -17 -08 +17 +01	185 207 182 167 173 158 151 93 95 87 161	H J J G A D G A A A A	06 02 01 16 04 08 15 05 04 03 07
October 2, 1958	08 08	2	-06 -19 +17 -12 +04 +06 +28 -20 +11 -08 -15 +18	206 186 180 162 166 157 148 126 105 96 91 84	H G H G E E F B B B B B	02 05 02 18 17 29 14 02 04 09 07 07

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
October 3, 1958	09 40	2	-18 -05 +18 -12 +06 +28 -08 -20 +18 +04 +12 -16	187 205 181 162 157 147 96 116 89 166 106 90	E J F F B D C A A B B B	04 01 03 13 17 10 15 03 01 18 12 05
October 8, 1958	08 07	3	+11 -06 -15 +18 +13	102 108 112 38 24	C J B C D	05 03 03 12 08
October 10, 1958	08 45	2	+11 +17 +13 -17 +04	96 39 23 63 354	B D E B B	03 14 05 07 08
October 11, 1958	07 42	3	+17 +13 -17 +06 +19 -11 +25 -16 -27	42 27 60 356 336 337 310 310 306	B C C A A A A J J	13 08 07 02 01 02 02 03 01
October 13, 1958	08 01	2	+16 +13 -12 +24 -16 -28 +22	41 26 340 300 307 297 351	A C B D E E J	06 05 04 02 10 22 02
October, 14, 1958	08 34	3	+16 +13 -12 +34 -17 -30 +12 -08	40 27 341 300 307 297 293 255	A B B E E E B J	01 03 08 05 14 22 04 01
October 18, 1958	08 20	2	-14 +24 -18 -28 +20 -03 -09 -04 -10	354 296 304 297 282 257 327 291 231	J D C C D F B B D	08 06 13 12 27 26 15 05 13

TABLE IX—contd.

1	2	3	4	5	6	7
	H. M.					
October 20, 1958	08 30	2	+24 -18 -28 +19 -03 -09 -10 -07 +20 -19	295 303 296 282 256 326 230 205 187 183	J D H E F J E J B J	01 10 07 34 35 07 50 01 04 02
October 21, 1958	07 57	2	-10 -17 -30 +25 +20 -05 -12 -07 +18 -20	324 305 298 294 283 258 232 207 190 173	J C J J F F F J B H	01 05 02 01 27 45 34 01 06 01
October 23, 1958	08 30	..	+25 -18 -29 +20 -06 -12 -07 +18 -20 -03 -09 -02 +28	293 301 297 282 257 231 204 189 181 294 286 218 139	J B J G F F B B J A A A J	01 02 02 09 20 34 02 04 01 02 03 02 01
October 24, 1958	08 43	3	+19 -06 -13 -09 +17 -21 -02 +27 +13 +07 -32 -16	288 260 233 205 191 186 221 138 225 185 167 142	J H F A A J A A A A A J	01 08 48 06 06 01 02 01 08 06 02 02
October 25, 1958	09 50	3	-06 -12 +14 -01 -07 +16 +06 -20 +30 -16 +27 -16	257 231 223 221 207 187 183 182 189 140 120 122	G E B B J J B H J J A A	06 34 10 03 01 07 07 01 01 03 01 01

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
October 26, 1958	13 00	3	-04 -12 -07 +17 -20 +31 +14 +06 -16 -14 -07 -32	254 231 206 190 181 137 225 184 142 126 169 161	J C J B J J B C H B B A	02 22 01 05 02 02 06 13 04 04 05 02
October 27, 1958	08 40	3	-12 -07 -20 +30 +14 +06 -16 -14 -11	230 206 180 134 222 183 141 123 90	E J H J B C J H J	18 01 04 01 02 13 04 05 01
October 28, 1958	11 39	3	-12 -07 -20 +31 +07 -15 -14 -11 -06 +08 +43 +19	228 205 178 136 187 138 120 90 177 73 78 78	E A J A C A E J A J A A	05 02 03 04 06 05 14 03 03 02 01 01
October 29, 1958	08 18	3	-07 +09 -20 -06 -18 -20 -15 -12 +15 +42 +08	207 190 180 177 140 129 123 89 84 77 69	A C J C B B E H A J E	01 20 03 12 11 03 39 04 01 01 10
November 1, 1958	10 00	3	-10 +08 +43 -13 +11 +37 +12 +21 +17 -15	84 73 71 124 106 100 89 68 49 69	C G A D A B A A A E	08 25 03 29 03 08 04 04 06 26
November 3, 1958	07 31	2	-11 +08 -13 +12 +36	84 73 121 104 99	D E B J C	06 26 23 01 14

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
November 3, 1958	07 31	2	+12 +15 +16 -17 +32	118 47 26 70 354	J J B F A	01 03 04 24 02
November 4, 1958	07 55	2	-12 +08 -13 +12 +37 +16 -17 +12 +33 +37 +10	84 73 121 103 99 47 71 118 354 48 30	D E B A B B F A J B A	05 26 19 01 17 02 38 01 04 17 01
November 5, 1958	07 55	3	-12 +07 -13 +36 +16 +33 +39 +10 -15	88 76 123 103 47 353 22 32 71	J C J A A J C A F	03 26 09 06 04 06 23 02 36
November 6, 1958	08 02	3	+35 -12 +38 +06 -16 +10 +33	100 88 76 75 65 31 49	A J E D F A J	04 01 17 15 31 01 03
November 7, 1958	07 47	3	-12 +07 -16 +34 +38 +16 -34	88 75 68 349 77 41 41	J B E H D J A	01 05 17 02 08 02 02
November 8, 1958	08 03	3	-12 +08 -16 +34 +38 +16 +23 -20	88 75 68 349 77 41 51 358	J B E J E E A B	01 04 11 02 08 07 01 01
November 9, 1958	07 48	3	+13 -19 +34 +38 +17 +12 -40 -30 +21	80 82 349 82 47 27 345 294 292	E E A E B A A A A	07 08 05 07 08 04 02 03 01

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
November 10, 1958	07 57	3	+16 +11 +35 +21 -30 -03	39 30 347 292 291 261	C A A A A J	03 08 01 01 01 01
November 11, 1958	08 35	3	+34 +11 -30 +22 -03 -07 +14 -17 +27	344 30 299 292 265 31 229 300 273	B C A A J A A A A	04 05 01 01 01 01 01 01 01
November 12, 1958	08 23	3	+12 -30 +20 -05 -20 +27 +13	31 291 294 266 302 274 342	H J A J A A B	03 01 01 01 01 01 06
November 14, 1958	08 51	2	+12 +05 -09 -30 -04 -10 -16	343 339 304 291 266 240 244	B A C J J B A	02 01 05 01 01 04 01
November 15, 1958	08 30	3	-30 -04 -09 -11 +17 +06	290 268 305 235 258 198	J H B A A A	01 02 05 02 03 02
November 16, 1958	07 45	5	-30 -03 -10 -11 +07 -13 +15 +19	195 268 305 244 195 323 268 238	J C D A J A A B	01 05 02 03 01 02 02 06
November 17, 1958	08 40	3	-10 -11 +10 +15 +20	306 243 197 273 236	J B J B D	01 04 01 07 10
November 18, 1959	07 47	2	+06 -05 +15 +22 -14	196 241 270 234 155	J A A C J	01 09 06 18 02
November 23, 1958	09 58	3	+06 -05 -10	200 186 165	J C E	01 12 18

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
November 23, 1958	09 58	2	-12 +17 -15 -26 -16	151 146 140 126 106	D H A J C	14 02 03 01 04
November 24, 1958	07 50	1	+06 -06 -12 -13 +17 -15 -26 -15 +18 +32 +09 -17	200 186 165 148 146 138 123 104 125 95 89 82	J B E B H A J C B A A A	01 13 24 13 04 03 03 07 08 02 03 03
November 25, 1958	07 44	1	+06 -06 -12 -13 +17 -15 -26 -15 +18 +35 +11 -17 +06 +40	199 187 165 150 144 138 123 104 128 94 89 78 76 68	J B F D H A J D B E B C A A	01 07 22 11 02 03 01 08 10 10 05 09 02 01
November 26, 1958	07 43	2	+07 -13 -14 +18 -14 -26 -16 +22 +37 +12 -17 +08 +42	200 166 151 147 141 125 108 139 90 90 83 78 63	A E A A A J D D B A F A A	01 17 12 04 06 03 13 31 06 08 26 02 03
November 27, 1958	08 00	3	-13 -14 +17 -26 -15 +20 +35 +13 -17 +08 +42 +28	166 152 147 123 105 31 90 92 80 79 60 122	F A B J E E J C F A A B	17 07 08 01 15 28 03 10 30 01 01 05

TABLE IX—contd.

1	2	3	4	5	6	7
	H. M.					
November 28, 1958	08 43	2	-13 -15 +16 +25 -26 +30 -15 +14 +34 +07 -17 +40 +13 +16 -09	164 150 147 131 122 121 105 93 92 83 77 65 54 32 26	F A B F J A D D B J F J A A A	13 03 04 24 01 06 25 15 08 04 61 01 05 01 02
November 29, 1958	07 36	1	-13 +16 -26 -15 +19 +35 +15 -17 +07 +40 +14 +17 -09	165 148 122 107 129 92 93 77 83 63 51 33 25	G J J D E A C F J B B A J	08 01 01 17 18 03 23 48 07 06 10 02 04
November 30, 1958	07 50	2	-26 -14 +20 +15 -17 +06 +41 +15 +18 -09 +09	121 112 131 95 77 83 60 54 30 27 42	A J F C F A A A J A A A	03 07 18 35 64 07 02 14 02 13 06
December 1, 1958	08 05	1	-14 +20 +15 -17 +06 +40 +15 +18 -09 +11 +07 -20	112 131 95 77 84 60 54 33 27 45 28 359	J E C F B A C B C B B J	06 15 32 63 14 02 16 03 13 17 11 04
December 2, 1958	08 48	2	+21 -14 +16 +06 +35 -16 +15 +11 -10	128 109 93 85 82 76 50 42 30	F H C D A F D D G	08 06 22 11 02 48 12 21 13

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
December 2, 1958	08 48	2	-07 -14 -21 -15	24 360 354 331	C A C A	13 01 05 01
December 3, 1958	07 38	1	-14 +16 -13 +06 +15 -09 +11 +07 -21 +35 -15 +13	114 95 77 86 53 26 45 25 355 81 331 334	J B F H G G D D G A A A	03 11 44 07 07 05 15 19 08 01 01 01
December 6, 1958	07 54	1	-16 +13 +11 -09 +08 -03 -07 -21 -13 -09 +15 -04 +19	74 60 47 26 25 10 09 357 338 315 310 286 286	F J J H F D D A J J E F A	08 01 06 13 33 12 34 01 02 02 40 11 01
December 7, 1958	07 50	2	-16 +13 +11 -09 +08 +03 -08 -22 +27 -13 -11 +15 -06 +10	73 58 47 30 27 11 10 356 356 333 314 311 282 278	J J J J F D F H A J J E F J	01 01 02 02 16 03 23 01 01 01 03 35 25 01
December 8, 1958	14 20	3	+08 -22 +03 -08 -11 +14 -03 +10 -33 -08 -20	26 365 11 10 313 311 286 276 284 276 256	E G B F J F E J A E E	08 22 02 15 06 29 09 02 03 14 07
December 9, 1958	14 35	3	+11 -22 -03 -08 -12	30 359 10 17 317	G G B E B	09 08 02 14 08

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
December 9, 1958	14 35	3	+14 -03 +08 -30 -08 -22 +09	313 288 280 290 279 268 243	E E J B E E A	25 17 02 06 15 10 02
December 11, 1958	09 41	2	-22 -12 +14 -03 +09 -31 -08 -22 +09 +28 +18	356 317 316 284 279 290 280 265 242 290 217	J B C F B B E D D B A	02 07 12 26 06 04 24 12 06 04 01
December 13, 1958	14 22	3	-14 +14 -03 -08 -20 +09 +26 +20	317 316 290 281 264 242 296 217	J J F E D D A C	02 04 26 28 22 09 01 09
December, 16, 1958	07 59	4	-03 -08 -18 +09 +22 +18	284 279 262 242 214 182	E B E D E A	14 11 14 13 26 01
December 17, 1958	09 58	3	-03 -09 -19 +08 +22 +16 -21 +18 -17	284 286 261 241 214 182 238 130 152	B E B H E A A A B	09 10 09 09 21 06 01 02 06
December 18, 1958	08 02	2	+01 -09 -17 +07 +22 +16 -22 +19 -15	282 289 268 242 215 179 237 135 158	A A A H E A A H D	02 01 01 04 21 02 01 04 12
December 19, 1958	08 55	2	+07 +22 +19 -16 -23 +08	242 214 133 157 119 174	A D H D J A	02 16 04 11 02 02

TABLE IX—contd.

1	2	3	4	5	6	7
	H. M.					
December 20, 1958	07 48	3	+22 -22 +18 -16 -23 +12	214 238 132 157 116 111	E B H D H A	18 02 02 12 04 02
December 21, 1958	07 37	2	+22 +18 -17 -23 +12 +08 -21	214 135 158 117 111 146 88	E H B J A A A	12 03 09 04 02 03 03
December 22, 1958	07 59	2	+22 +19 -17 -22 +12 +18 -17 +12 +26	214 134 157 115 105 146 76 65 114	D H C J A A H F A	02 02 10 06 03 06 01 13 04
December 23, 1958	08 40	3	+23 +19 -17 -22 +12 +08 -17 +13	210 134 157 114 105 146 76 69	J H B J A A F D	03 02 05 04 02 05 20 07
December 24, 1958	07 45	1	+18 -17 -22 +11 +08 -17 +13 +07 +21 -22	132 154 114 102 148 76 66 117 54 64	C A B A B F D A J A	04 02 04 01 04 40 12 04 01 01
December 25, 1958	08 08	1	+18 -24 +09 +08 -17 +13 +11 +18 -24 +21 +07	133 114 104 149 76 66 115 54 64 79 43	H B A B F E A B A A C	03 03 05 07 67 17 02 08 03 02 09
December 26, 1958	09 00	2	+18 +11 +08 -17 +13 +13 +19	132 102 147 74 62 114 50	H B C F D C D	01 12 07 46 23 15 15

TABLE IX—*contd.*

1	2	3	4	5	6	7
	H. M.					
December 26, 1958	09 00	2	—22 +21 +07 —04	62 72 39 19	A A D J	04 03 10 01
December 27, 1958	08 07	1	+18 +10 +08 —17 +13 +13 +17 —22 +07 —04 +26	132 104 147 74 62 114 47 62 39 19 101	H B C F D C C A D J A	01 11 04 40 23 09 22 01 16 03 01
December 28, 1958	07 45	2	+18 +10 +08 —17 +13 +13 +17 —22 +07 —04 +26 +07	131 104 147 74 62 114 47 61 36 18 101 119	J B J F C C D B H A B A	01 11 02 40 08 03 13 06 07 03 05 03
December 29, 1958	07 43	2	+18 +09 —18 +12 +12 +18 —22 +07 —05 —26 +08 +17	133 106 76 64 115 46 63 36 18 104 123 85	J B F C B B B A H A A A	01 07 34 17 02 11 03 05 02 01 02 02
December 30, 1958	08 30	1	+09 —15 +13 +13 +18 +06 —05 +19 +12 +19	105 75 63 117 44 36 18 86 95 344	B F D J C H J B A A	04 46 21 01 25 07 02 05 03 03
December 31, 1958	08 04	2	—15 +13 +18 +06 —04 +19 +12 +20	75 65 46 37 19 87 95 344	E D C H J B A B	33 16 10 02 02 03 03 08

PART II

Magnetic observations for the Second Half of 1958

Brief descriptions of the absolute instruments, the variometers and the system of observations are available in Bulletins Nos. CXXXII and CXXXVI of this observatory. The data given in this bulletin are derived mainly from the records of La Cour instruments, but in case of failure of La Cour records, Watson magnetograms have been used.

The adopted values of the scale coefficients for the Horizontal Force, Vertical Force and Declination magnetographs for the second half of 1958 were 29r/cm., 115r/cm. and 14'/cm. respectively.

PART III

Ionospheric observations for the Second Half of 1958

A description of the system of ionospheric observations at Kodaikanal together with a brief description of the Ionosphere Recorder has been given in Bulletin No. 146 of this observatory. The present Bulletin contains half-hourly values of 11 ionospheric parameters viz. foF₂, foF₁, foE, foEs, fbEs, fmin., h'F₂, h'F, h'E, h'Es and M(3000) F₂ with symbols and terminology as recommended by the Special Committee on worldwide Ionospheric Soundings to the URSI/AGI in its first report (Brussels, September 2, 1956). The f-plots of the ionospheric parameters for Regular World Days and Special World Intervals during the second half of 1958, prepared under the I. G. Y. Programme are also included in this Bulletin.

KODAIKANAL OBSERVATORY,
July 19, 1960.

M. K. VAINU BAPPU,
Director.

IONOSPHERIC DATA

Characteristic : foF₂

Unit : Mc.

Month : July 1958

TABLE I
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	F	U9.8F	F	F	8.4F	5.3	8.0	10.6	12.0	12.3	C	C
2	U7.8F	8.9	8.6	F	F	U8.6F	8.8	10.5	10.8	10.9	11.0	11.1
3	8.3F	F	F	U8.3F	7.8	5.3	7.7	10.3	U11.7s	12.3	12.3	11.7
4	U9.3s	F	U7.3s	F	F	F	7.0	9.6	11.3	12.0	11.8	11.2
5	F	F	F	F	F	8.1	U9.1s	10.7	11.3	11.9	12.1	11.7
6	F	F	F	F	8.1	U6.4s	8.0	10.3	11.1	11.8	11.7	10.8
7	F	F	F	F	F	4.8	8.3	10.8	11.7	11.0	11.0	10.4
8	F	F	F	8.1F	F	F	7.7	10.0	10.7	10.4	10.3	10.2
9	8.0	7.0	S	5.7F	F	F	6.6	9.1	10.6	12.0	11.8	12.3
10	10.3	9.2	7.9	6.8	5.3	2.6	7.6	10.6	12.2	U12.2R	11.5	11.0
11	F	U8.6F	8.5	8.4	8.3	3.7	U7.2s	10.0	11.5	11.7	U11.0R	10.0
12	F	F	8.5	8.3	U9.6s	8.9	8.1	10.0	10.8	U11.1R	11.7	11.5
13	F	F	FS	U6.8s	FS	J6.1s	7.4	10.6	11.6	11.3	10.2	9.9
14	F	F	F	F	F	U5.7s	7.5	10.1	11.4	11.4	11.3	10.8
15	F	FS	U7.4s	6.8	U7.3HS	U5.2s	6.8	9.4	10.5	12.0	12.1	11.5H
16	8.1	8.5	U7.1s	6.4	7.3	U7.2s	7.3	9.6	11.0	10.8	10.2	9.4
17	F	F	F	F	F	U4.9F	6.9	10.0	10.0	J11.2R	11.5	9.2
18	C	7.5	J7.4R	7.5	6.7	3.9	6.9	9.6	11.2	11.5	12.8	12.4
19	U8.3F	7.8	7.0	U6.4s	4.9	2.9	7.0	9.4	11.0	11.0	10.8	10.0
20	8.4	U7.5s	J6.4s	5.0	5.0	4.0	6.6	U9.7s	10.6	12.0	12.6	U11.0W
21	9.0	8.2	7.7	U7.7s	U8.1s	6.7	C	A	11.0	11.8	U12.0R	11.6
22	S	U8.4s	4.4	2.7	F	U3.0F	7.0	10.1	11.2	12.5	C	C
23	F	U9.3F	F	F	8.8F	7.2F	F	10.8	11.5	J12.1R	12.2	11.8
24	F	F	F	F	7.4	U5.3s	U7.3s	10.2	11.1	11.7	11.3	10.7
25	F	F	F	F	F	F	U8.5F	10.7	11.4	11.2	10.6	10.2
26	F	F	F	F	7.6	5.4	U7.5s	10.4	11.4	C	12.8	11.8
27	F	F	F	F	6.6	6.2F	8.1	C	C	C	C	9.8
28	F	F	F	F	F	7.8	8.2	11.0	12.1	13.0	13.2	U13.2R
29	F	F	F	F	F	F	7.9	10.7	11.8	12.7	12.1	11.6
30	F	F	F	F	U9.5F	8.1	8.9	10.8	11.4	12.1	11.6	10.8
31	F	F	F	F	F	8.5	9.6	11.2	11.8	U11.8R	10.6	9.9
Mean	8.3	8.4	7.4	6.8	7.4	5.8	7.7	10.2	11.3	11.7	11.5	10.9
Median	8.3	8.4	7.4	6.8	7.4	5.6	7.6	10.3	11.3	11.8	11.6	11.0
Count	9	12	12	14	17	26	29	29	30	29	28	29

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foF₂

Unit : Mc.

Month : July 1958

TABLE I

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	10.2	10.2	10.3	10.6	10.3	U9.4F	U9.1F	F	F	1
11.1	11.4	11.5	11.6	11.9	12.1	U11.5S	10.3	F	F	F	F	2
10.9	10.5	10.7	11.2	11.5	U11.5S	U11.7S	11.4	10.6	10.4	10.9	U9.8F	3
10.6	9.9	9.8	10.1	10.5	10.9	10.9	U10.3F	F	F	F	F	4
11.6	11.9	12.4	12.4	U12.5R	12.6H	U11.5S	F	F	F	F	F	5
10.6	10.7	11.1	11.7	11.9	12.5	12.1	11.1F	F	F	F	F	6
10.0	9.8	10.0	10.6	11.0	A	10.8	9.9F	U7.8F	F	F	F	7
9.8	9.5	9.4	10.5	10.8	10.9	11.4	10.7	F	F	F	8.0F	8
12.6	13.3	13.3	13.2	12.9	U12.5R	U11.6S	U9.4S	8.9	8.9	9.9	U10.3S	9
10.7	10.8	11.9	12.1	12.0	U11.9S	U11.8S	FS	F	F	F	C	10
9.5	9.5	10.5	10.7	10.2	10.7	11.1	10.8	9.3	U8.5F	8.9	F	11
11.7	11.6	11.8	12.0	12.3	12.4	12.9	11.0	F	F	F	F	12
10.3	10.5	11.4	12.3	12.5	12.5	12.2	U11.8S	10.7	U9.6S	8.7	F	13
10.3	9.9	10.0	10.0	10.3	U11.4S	U11.9S	10.9	U9.6S	F	F	F	14
9.6	9.6	10.0	10.2	10.3	10.7	11.0	10.4	J10.0F	U9.8S	10.1	FS	15
9.4	9.6	9.9	U10.0R	11.0	C	12.2	11.1	F	F	F	F	16
9.7	10.5	11.0	11.4	11.5	11.6	11.4	12.6	F	F	F	F	17
11.7	10.3	11.0	11.8	U11.6S	J12.3R	U11.8S	11.5	10.8F	U9.6S	U9.4S	U8.7F	18
9.7	9.7	10.8	J11.2R	J12.2R	12.6	13.1H	13.0	12.4	U11.3S	10.5	U9.6S	19
9.9	9.6	10.0	10.5	10.9	11.1	J11.8S	U11.5S	11.0	10.3	U9.4S	U9.6S	20
10.6	10.7	11.6	12.2	12.7	12.7	12.9	U11.8S	F	F	F	U9.0F	21
C	13.5	13.2	12.5	11.6	11.4	U11.6S	11.4	J9.6S	F	F	F	22
11.4	11.3	10.2	9.9	10.0	10.7	11.2	10.6	F	F	F	F	23
10.5	10.8	11.3	11.0	11.4	12.1	U12.0S	U11.6S	10.0F	FS	F	F	24
9.6	9.5	10.0	10.4	11.1	J12.1S	J12.0S	10.6	U9.3F	9.0	F	F	25
11.0	11.0	11.3	11.6	11.5	11.3	10.9	10.1	8.9	7.4F	F	F	26
9.4	9.6	10.2	11.2	11.3	11.6	11.2	10.2	F	F	F	F	27
12.8H	11.4	11.2	11.1	11.1	11.6	U11.9S	11.0	F	F	F	F	28
10.2	9.8	9.8	10.5	10.8	11.4	U12.0S	11.4	F	F	F	F	29
10.6	C	10.6	10.6	10.4	10.2	10.0	8.3	F	F	F	F	30
9.7	10.0	10.0	9.7	10.1	10.6	11.0	U9.6S	8.6	8.9	9.1	8.6	31
10.5	10.6	10.9	11.1	11.3	11.6	11.6	10.8	9.8	U9.4	9.7	U9.2	Mean
10.5	10.5	10.8	11.1	11.3	11.6	11.6	10.9	9.6	U9.4	9.4	U9.3	Median
29	29	30	31	31	29	31	29	16	12	9	8	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F₂

Unit : Mc.

Month : July 1958

TABLE I

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	U9.6F	F	F	6.7	6.3	9.4	11.3	12.1	12.3	C	C
2	8.4	8.8	U8.7F	F	F	8.1	9.9	11.0	11.1	11.0	10.9	11.0
3	8.3F	F	F	U8.1F	6.0	6.5	9.1	10.9	12.0	12.5	12.2	11.2
4	U8.9F	U7.9F	U6.3F	F	F	F	8.7	10.6	11.6	11.7	11.6	10.7
5	F	F	F	U6.7F	U7.7F	8.1	9.8	11.4	11.5	11.9	11.9	11.6
6	F	F	F	F	U7.2S	6.4	9.3	10.8	11.6	11.8	11.1	10.9
7	F	F	F	F	6.4F	6.1	9.7	11.1	11.6	11.3	10.6	10.2
8	F	F	F	F	F	U5.6F	8.9	10.7	10.7	10.4	10.1	10.0
9	U7.3S	U6.8S	U7.3S	4.4F	F	4.3	8.2	9.8	11.6	11.8	12.0	12.4
10	U9.6S	8.5	7.5	6.2	4.1	5.1	9.5	11.5	12.2	12.0	11.1	10.8
11	F	8.5	8.6	8.5	6.6	U5.2S	9.1	11.0	11.5	11.5	10.3	9.7
12	F	U8.6F	U7.9F	8.6	U9.6S	7.9	U9.1S	10.6	11.3	11.5	11.6	11.5
13	F	F	FS	U6.6S	6.4	6.4	U9.1S	11.5	11.7	10.7	9.8	10.0
14	F	F	F	F	F	U5.8S	U9.1S	U11.1R	11.6	11.5	10.8	10.6
15	FS	FS	6.8	6.7	U6.8S	U5.3S	8.2	10.6	11.3	12.3	11.8H	U10.1W
16	8.1	7.9	6.7	6.5	8.6	6.2	9.2	10.3	10.9	10.7	9.6	9.4
17	F	F	F	F	U6.4F	5.3	8.5	10.8	11.6	11.2	9.0	9.5
18	F	7.4	7.6	7.4	J5.2S	4.7	8.8	10.4	11.7	C	12.6	11.8
19	U8.2F	7.6	U6.5S	6.4	3.7H	4.7	8.6	10.4	10.9	10.8	10.3	9.8
20	U7.8S	U7.0S	U5.7S	5.0	4.4	4.8	8.4	10.6	11.5	12.2	U12.0R	U10.2W
21	U8.5S	8.0	7.4	U8.1S	U7.5S	6.3	8.9	10.8	11.4	12.2	12.0	11.0
22	8.8	F	3.1	2.8	2.8	4.5	9.1	10.3	11.8	12.8	C	C
23	U9.3F	F	F	F	U8.0F	F	F	10.9	J12.2R	12.1	11.9	11.4
24	F	F	F	F	6.6	5.3	9.2	10.8	11.1	11.6	U10.8R	10.6
25	F	F	F	F	F	F	U9.7F	11.1	11.4	10.8	10.5	10.0
26	F	F	F	F	7.0	5.5	9.2	11.3	J12.0R	C	12.2	11.3
27	F	F	F	6.8	6.4	U6.5F	9.2	C	C	C	9.8	9.7
28	F	F	F	F	8.5	6.8	U9.7S	11.9	13.0	13.0	13.3	U13.2R
29	F	F	F	F	F	6.1	U9.6S	11.4	U12.0R	12.5	12.0	10.8
30	F	F	F	U9.8F	U9.1S	7.4	10.0	11.4	11.8	11.9	11.3	10.4
31	F	F	F	8.3	F	8.5	10.5	11.6	12.0	11.0	10.3	9.8
Mean	8.5	8.0	6.9	6.9	6.6	6.1	9.2	10.9	11.6	11.7	11.2	10.7
Median	8.4	8.0	7.3	6.7	6.6	6.1	9.2	10.9	11.6	11.8	11.1	10.6
Count	11	12	13	17	23	28	30	30	30	28	29	29

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F2

Unit : Mc.

Month : July 1958

TABLE I

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	10.4	10.2	10.1	10.4	10.6	9.5	9.5 ^F	F	F	F	1
11.4	11.4	11.6	11.6	12.1	U11.8s	10.8	U9.5 ^F	F	F	F	F	2
10.6	10.5	11.1	11.1	U11.6s	U11.8s	U11.7s	11.0	10.3	10.9	U10.4 ^F	U9.6s	3
10.4 ^H	9.7	9.9	10.3	10.7	10.9	10.6	F	F	F	F	F	4
11.8	12.0	12.5	12.4	12.6	12.4	U10.6s	F	F	F	F	F	5
10.4	10.8	11.5	11.8	12.3	12.5	U12.0s	F	F	F	F	F	6
9.9	9.9	10.3	10.9	A	U11.0s	U10.8s	8.5 ^F	U8.5 ^F	F	F	F	7
9.5	9.2	9.8	10.8	11.0	11.0	11.3	U9.4 ^F	F	F	F	8.7	8
12.9	13.2	13.2	13.1	U12.8R	U12.2s	U10.9s	8.7 ^F	F	U9.4s	U10.2s	U10.3s	9
10.7	11.3	12.1	12.0	11.9	U11.8s	U11.6s	F	U9.3 ^F	U10.2 ^F	F	F	10
9.4	9.8	10.8	10.3	10.4	10.8	11.2	U9.7s	F	U8.6 ^F	FS	F	11
11.8	11.7	J11.9s	12.0	12.5	12.7	U12.3s	U9.6 ^F	F	F	F	F	12
10.5	10.8	U11.6s	12.4	12.6	12.5	J12.1s	11.3	10.3	U9.1s	F	F	13
10.0	10.0	9.8	10.1	10.7	U11.6s	U11.6s	J10.0s	U8.8s	F	F	F	14
9.5	9.8	10.3	U10.1R	10.4	10.8	10.7	U9.9s	J9.8s	U9.7s	U10.2 ^F	8.3	15
9.4	9.7	10.0	10.4	11.9	J11.9s	12.3	9.8	F	F	F	F	16
10.0	10.8	11.2	11.4	11.7	11.4	12.2	11.3	F	F	F	C	17
U11.0W	10.7	11.5	11.8	J12.2R	J12.3R	U11.8s	U11.0R	U10.2 ^F	U9.4s	9.0	U8.6 ^F	18
9.5	10.6	10.8	U11.7s	12.2	13.0H	U13.2s	13.0	U11.5s	11.0	10.0	8.9	19
9.5	9.6	10.3	10.9	11.0	11.4	12.2	11.0	11.0	U9.4s	U9.6s	U9.8s	20
10.7	11.1	U12.0R	12.4	12.8	U13.0R	12.4	F	F	F	F	U9.3 ^F	21
13.5	13.4	12.8	11.6	11.4	U11.6s	U11.4s	10.6	F	F	F	F	22
11.4	10.8	10.2	9.6	10.4	11.1	11.2	U9.7 ^F	F	F	F	F	23
10.6	11.2	10.9	11.2	11.6	12.6	U11.6s	10.7	9.9	F	F	F	24
9.4	10.0	10.1	10.8	11.5	12.4	11.0	9.8	9.1	U9.0 ^F	F	F	25
11.0	11.0	11.6	11.6	11.4	11.1	10.7	9.2	8.0	F	F	F	26
9.4	9.7	10.6	11.4	11.5	11.5	10.6	9.4	F	F	F	F	27
11.9	11.4	11.0	11.0	11.4	U11.8s	11.5	10.0	F	F	F	F	28
10.0	9.8	10.4	10.7	11.1	U11.8s	11.8	10.4	F	F	F	F	29
10.2	10.3	10.6	10.6	10.3	10.4	9.1	U7.0 ^F	F	F	F	F	30
9.8	10.1	9.8	10.0	10.4	10.8	U10.3s	8.8	8.8	U9.0R	8.8	8.8	31
10.5	10.7	11.0	11.2	11.5	11.7	11.4	10.0	9.6	U9.6	U9.7	U9.1	Mean
10.4	10.6	10.8	11.1	11.5	11.8	11.4	9.8	9.6	U9.4	U10.0	U8.9	Median
30	30	31	31	30	31	31	26	14	11	7	9	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foF₁

Unit : Mc.

Month : July 1958

TABLE 2

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	G	C
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6									L	L	L	L
7									L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10									L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	LH	LH
18								L	L	L	L	L
19								L	L	L	L	LH
20								L	L	L	L	L
21								A	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	LH
28								L	L	L	LH	L
29								L	L	L	LH	LH
30								L	L	L	L	L
31								L	L	L	L	L
Mean
Median
Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F₁

Unit : Mc.

Month : July 1958

TABLE 2

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C L L LH L	C L L LH L	C L L L L	L L L L L	L L L L L	L L L							1
												2
												3
												4
												5
L L L L L	L L L L L	L L L L L	L A A L L	L A L L L	A L L L							6
												7
												8
												9
												10
L L L L L	L L L LH L	L LH L LH L	L A L L L	L L L L L	L L L L L							11
												12
												13
												14
												15
L LH L LH L	L LH L LH L	L L L L L	L L L L L	L L L L L	C L L L L							16
												17
												18
												19
												20
L C L L L	L L L L L	L L L L L	L L L L L	LH L L L L	L L L L L							21
												22
												23
												24
												25
L LH L LH LH	L LH L LH C	L L LH L ^{u6.3L} L	L LH L L L	L L L LH L	L L L LH L							26
												27
												28
												29
												30
L	L	L	LH	L	L							31
..	..	..	..	..	..							Mean
..	..	..	..	..	..							Median
..	..	1	..	..	..							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foF₁

Unit : Mc.

Month : July 1958

TABLE 2

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Day	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	C	C
2							L	L	L	L	L	L
3							L	L	L	L	L	L
4							L	L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11							L	L	L	L	L	L
12							L	L	L	L	LH	L
13							L	L	L	L	L	L
14							L	L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	LH	LH
18								L	L	C	L	L
19								L	L	L	LH	LH
20								L	L	L	L	L
21								L	L	L	L	L
22							L	L	L	L	C	C
23							L	L	L	L	L	L
24							L	L	L	L	L	L
25							L	L	L	L	L	L
26							L	L	L	C	L	L
27							L	C	C	L	LH	LH
28								L	L	L	L	L
29								L	B	LH	LH	LH
30								L	L	L	LH	LH
31								L	L	LH	L	L
Mean						
Median						
Count						

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F₁

TABLE 2

Latitude : 10.2° N

Unit : Mc.

Ionospheric Data

Longitude : 77.5° E

Month : July 1958

75.0° E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	L	L	L	A							1
L	L	L	L	L								2
L	L	L	L	L								3
LH	L	L	L	L								4
L	L	L	L	L								5
L	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	L								11
L	L	L	L	L								12
L	L	L	L	L								13
LH	LH	LH	L	L								14
L	L	L	L	L								15
L	L	L	L	L								16
LH	L	L	L	L								17
L	L	L	L	L								18
LH	LH	L	L	L								19
L	L	L	L	L								20
LH	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
LH	LH	LH	L	L								27
LH	L	L	L	L								28
LH	LH	LH	LH	L								29
L	L	L	L	LH								30
LH	L	L	L	L								31
..	..	..	..	..	..							Mean
..	..	..	..	..	..							Median
.. 1	1	2	..	..	..							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo E

TABLE 3

Latitude : 10.2° N

Unit : Mc.

Ionospheric Data

Longitude : 77.5° E

Month : July 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3.1H	A	A	C	C
2							2.2H	A	A	A	A	A
3								A	A	A	A	A
4								A	3.6A	A	A	A
5								A	A	B	A	A
6							2.2	3.1	A	A	A	A
7							2.3	A	A	A	A	A
8								A	A	A	A	A
9								A	A	A	A	A
10								2.8	A	A	A	A
11								2.9	A	A	A	A
12								A	A	A	A	A
13								U3.2R	A	A	A	A
14							U2.1R	A	A	A	A	A
15								2.9H	A	A	A	A
16							U2.5R	2.9H	A	A	A	A
17							2.2	2.9	A	A	A	A
18								A	A	A	R	A
19								U2.9A	A	A	A	A
20								2.8	A	A	B	A
21								2.9	3.5	A	A	A
22								U2.8R	3.3	A	C	C
23							R	A	A	A	A	A
24								A	3.4	A	A	A
25								3.0	A	A	A	A
26								2.9	U3.5R	C	A	A
27								C	C	C	C	B
28								U3.2R	U3.7R	A	B	B
29								U3.2A	B	B	B	B
30								U3.3A	U3.7A	A	A	A
31								A	A	A	A	A
Mean							2.2	3.0	3.5	..	..	..
Median							2.2	2.9	3.5	..	..	..
Count							6	17	7	..	..	..

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc

Month : July 1958

TABLE 3

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	A	A	A							1
A	A	A	A	A	F							2
A	A	A	A	A	A							3
A	B	A	A	A	2.9							4
												5
A	A	A	A	A	3.0							6
A	A	A	A	A	A							7
A	A	A	A	A	3.0							8
A	A	U4.1R	A	A	A							9
		A	A	A	A							10
A	A	B	A	A	A							11
A	B	A	A	A	A							12
A	A	A	A	A	A							13
A	A	A	A	A	A							14
												15
A	A	A	A	A	C							16
A	A	A	A	A	3.0H							17
A	A	A	A	A	A							18
A	A	A	A	A	3.4							19
B	A	A	A	A	2.9							20
A	A	A	A	3.3	2.8							21
C	A	A	A	U3.5A	A							22
A	A	A	A	A	2.8							23
A	A	U3.7A	A	3.4	2.9							24
A	A	A	A	U3.5A	2.8							25
A	A	B	A	A	A							26
B	B	B	A	A	A							27
A	A	A	A	A	A							28
A	A	A	A	A	A							29
A	C	A	A	A	A							30
A	A	A	A	U4.0A								31
..	..	..	..	3.5	2.9							Mean
..	..	..	..	3.4	2.9							Median
..	..	2	..	6	9							Count

Sweep 1 Mc. to 25 Mc. in 27 Seconds.

Characteristic : foE

Unit : Mc.

Month : July 1958

TABLE 3—contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2.8	A	A	A	C	C
2							A	A	A	A	A	A
3							2.7	A	A	A	A	A
4							A	A	3.9 ^A	A	A	A
5								A	A	A	A	A
6							A	A	A	A	A	A
7							3.0	A	A	A	A	A
8								A	A	A	A	A
9							A	A	A	A	A	A
10							2.7	A	A	A	A	A
11							2.5	U3.4 ^A	A	A	A	A
12							A	A	A	A	A	A
13							U2.7 ^R	A	A	A	A	A
14							U2.5 ^A	A	A	A	A	A
15							2.7 ^H	3.4 ^H	A	A	A	A
16							U2.7 ^R	A	A	A	A	A
17							2.5 ^H	A	A	A	A	A
18							A	A	A	C	A	A
19							A	A	A	A	A	A
20							2.4	A	A	A	A	A
21							2.6 ^H	3.2	A	A	A	A
22							2.5 ^H	3.1	A	A	C	A
23							A	A	A	A	A	A
24							2.5 ^H	3.2 ^H	A	A	A	A
25							3.0	U3.1 ^A	A	A	A	A
26							2.3	R	B	C	A	B
27							U3.0 ^A	C	C	C	B	B
28							2.8 ^H	U3.5 ^R	B	A	B	A
29							U3.0 ^A	A	B	B	B	B
30							U2.7 ^R	U3.5 ^A	A	A	A	A
31							A	A	A	A	A	A
Mean							2.7	3.3	..	..	..	..
Median							2.7	3.3	..	..	..	..
Count							20	8	1	..	..	..

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc.

Month : July 1958

TABLE 3—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	A	A	A	A							1
A	B	A	A	3'2	A							2
A	A	A	A	A								3
A	A	A	A	3'3A								4
A	A	A	R	A								5
A	A	A	A	3'3	2'7							6
A	A	A	A	A								7
A	A	A	A	A								8
A	4'2	4'0	A	A	A							9
A	A	A	A	A	A							10
A	B	B	A	A	A							11
A	A	A	A	A								12
A	A	A	A	A								13
A	A	A	A	A								14
A	A	B	A	A								15
A	A	A	A	A	U2'9A							16
A	A	A	A	A	A							17
A	A	A	A	A	A							18
A	A	A	A	3'2	A							19
A	A	A	A	A	A							20
A	A	A	A	3'2								21
A	A	A	U3'6F	3'3	2'5							22
A	A	A	A	A	2'6							23
A	A	A	3'7	3'3	2'6							24
A	A	A	A	3'2	2'5							25
A	A	A	A	A	2'6							26
B	B	U4'1A	A	U3'2R								27
A	A	A	A	A								28
A	A	A	A	A								29
A	A	A	A	A								30
A	A	A	A	B								31
..	..	..	..	3'2	2'6							Mean
..	..	..	..	3'2	2'6							Median
..	1	2	2	10	6							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foEs

TABLE 4

Latitude : 10.2°N

Unit : Mc.

Ionospheric Data

Longitude : 77.5° E

Month : July 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	5.4							7.0	8.6	9.8	C	C
2							G	8.0	10.6	10.2	11.0	11.4
3								7.8	8.3	9.5	10.8	11.0
4	6.3	5.5		5.8	8.2	8.0		8.6	9.6	10.0	11.2	11.4
5			5.2				5.4	9.8	10.6	10.0	11.4	11.0
6							G	8.6	9.8	10.6	12.0	12.0
7		4.0	2.6				7.0	9.0	10.0	10.0	11.6	11.6
8			3.0	7.0			8.0	10.0	10.0	11.0	11.4	11.6
9			2.2				7.0	9.0	9.6	10.2	10.0	9.2
10	2.0							3.6	10.0	11.0	11.6	12.0
11		3.1	3.2					G	9.7	10.9	11.3	11.3
12								10.6	10.4	11.6	11.8	11.4
13		2.4						G	9.1	10.4	12.0	11.3
14		3.4					G	10.6 ^s	10.7	12.0	13.0	12.6
15								G	8.1	10.3	11.2	11.9
16		4.2					G	G	8.7	9.6	11.4	11.7
17							G	G	9.0	10.0	11.0	11.2
18	C							8.0	8.0	8.4	G	11.0
19		3.4						5.0	9.4	11.0	12.0	12.0
20	5.6							G	8.6	10.0	11.0	11.0
21	3.8	4.2						10.0	7.0	10.0	11.0	11.0
22				2.2				G	8.0	8.0	C	C
23							2.1	3.6	9.4	8.8	10.6	10.8
24	4.3							4.0	G	9.2	10.8	10.2
25	3.4	4.0	3.8				6.4	6.8	9.0	10.2	11.2	11.6
26	10.8 ²⁵							3.6	7.4	C	11.0	10.8
27	4.0							C	C	C	C	11.0
28			3.6	4.6			2.1	G	G	10.0	11.0	11.4
29	2.8							8.0	9.8	10.0	12.0	12.0
30	3.4							7.0	9.8	10.2	11.5	11.4
31							6.0	8.4	7.4	11.0	11.6	11.6
Mean	4.5	3.8	3.4	..	..	..	5.5	7.5	9.2	10.1	11.3	11.3
Median	4.0	4.0	3.2	..	..	..	2.1	7.0	9.2	10.0	11.2	11.4
Count	11	9	7	4	1	1	13	30	30	29	28	29

Sweep : 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc.

Month : July 1958

TABLE 4
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	10.0	8.7	6.8	7.0						
11.4	10.4	10.0	13.0	6.8	6.8	8.0				6.0	5.3	1
11.4	12.0	11.0	10.0	9.4	10.4	10.8	3.6	4.4	U9.4s	7.0	..	2
11.0	11.1	10.8	10.2	8.8	G	U7.0s			6.0	7.8	U7.0s	3
11.0	9.4	10.0	10.6	10.8	8.0	U6.0s				U5.0s	4.2	4
												5
11.0	11.0	10.0	11.0	8.0	G	3.9						
11.8	12.0	12.0	17.0	21.0	22.0	16.0				U6.8s	3.4	6
11.0	11.0	11.2	18.0	9.0	G	2.6				8.0		7
10.4	10.6	G	11.0	8.6	8.0	..						8
12.0	12.0	11.4	11.0	10.0	10.0	U7.4s						9
											C	10
12.0	11.3	11.2	10.5	9.1	9.0	U7.9s	4.0			3.8	9.6	11
11.5	10.8	12.0	U14.3s	9.3	U8.0s	U4.5s			1.8	2.1	..	12
11.5	11.2	10.8	9.6	10.1	8.5	..				2.3	U4.2s	13
12.3	11.4	11.4	11.6	8.6	4.3	U4.3s	2.2			..	..	14
11.9	11.6	11.8	11.0	8.9	U7.8s	U6.8s	2.3			3.0	3.1	15
11.6	11.5	11.4	10.8	8.2	C	2.8					2.6	16
11.0	11.2	11.0	11.2	8.0	G	2.2		2.4			..	17
11.0	10.6	10.2	10.2	9.0	U7.0s	4.2					5.4	18
11.6	11.8	11.6	11.4	G	3.6	..			3.8	2.6	3.1	19
11.0	11.0	11.4	10.6	10.0	14.4	14.0	8.3	4.6	3.6	3.3	6.6	20
12.0	11.0	11.0	9.4	G	2.9	..				2.6	8.2	21
C	10.7	10.8	10.6	8.8	8.0	U4.2s	8.6				..	22
11.6	11.6	11.0	11.0	8.6	7.7	..					2.1	23
10.2	10.4	8.8	8.8	7.6	6.5	..	S	4.7	4.0		5.7	24
11.0	11.2	11.2	10.6	9.4	G	..			2.4	4.0	2.9	25
11.3	10.8	10.8	10.0	8.5	7.8	4.2	U6.0s	3.0			U7.0s	26
11.0	11.0	10.2	9.8	8.2	7.6	4.6				2.2	3.4	27
12.0	12.4	11.6	11.8	9.0	8.6	U6.2s	3.6		1.9	4.0	3.5	28
12.0	11.8	12.6	12.0	8.6	17.0	10.8	3.4			3.0	3.0	29
11.6	C	11.4	11.0	8.4	8.6	4.2	2.8				6.6	30
11.8	11.9	11.4	11.0	8.6	4.4	..			2.0	3.0	3.2	31
11.4	11.2	11.0	11.3	9.2	8.5	6.5	4.5	3.8	3.9	4.2	4.8	Mean
11.5	11.2	11.1	11.0	8.7	7.8	6.0	3.6	4.4	3.6	3.6	4.2	Median
29	29	30	31	31	30	23	10	5	9	18	21	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foEs

TABLE 4—Contd.

Latitude : 10.2° N

Unit : Mc.

Ionospheric Data

Longitude : 77.5° E

Month : July 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							6.8	8.4	9.8	11.6	C	C
2		3.4					7.3	8.6	9.6	11.0	11.5	11.0
3							G	7.8	8.4	9.6	11.0	11.6
4			5.4	7.8	10.4		7.0	8.6	9.6	11.0	11.0	11.2
5	06.48	4.2	06.28				8.0	10.4	11.6	11.6	10.4	11.0
6		5.6					7.6	9.0	9.4	11.0	11.8	11.2
7	7.0	..	2.2				G	9.0	9.2	11.0	12.0	11.6
8		3.4	7.0				9.0	10.0	10.4	11.0	11.6	11.0
9							8.0	9.0	10.0	10.8	10.2	10.0
10	3.2						G	9.0	10.0	11.0	11.6	11.8
11		3.3					G	7.8	10.0	11.6	11.2	11.4
12		..					10.4	10.0	11.0	12.7	11.0	11.5
13	3.0	2.2					G	8.3	10.1	12.1	11.4	11.6
14		9.6					8.9	10.4	10.8	11.9	12.4	12.1
15							6.1	G	9.2	11.0	11.6	12.1
16	3.6						G	7.6	9.0	10.9	11.8	11.8
17							G	8.0	10.0	11.0	11.2	11.4
18		5.2					6.0	9.2	7.0	C	10.0	10.6
19							3.2	8.0	10.0	12.0	12.0	12.0
20	5.6						G	10.2	9.6	11.0	10.6	11.2
21	4.4						4.6	6.8	9.2	10.4	10.5	11.4
22				05.08			G	G	8.8	10.7	C	C
23				2.2			3.2	7.0	8.6	10.8	10.8	10.8
24							G	G	8.4	10.0	10.8	11.0
25	06.08	5.7	3.0				6.4	8.4	10.0	10.8	11.4	11.2
26							2.6	6.4	8.4	C	10.8	10.8
27	4.6						8.4	C	C	C	10.2	11.0
28		3.6					G	G	G	11.0	11.2	11.4
29							6.4	7.2	B	10.7	11.2	11.8
30							6.4	7.0	10.0	11.0	11.4	12.4
31	4.2						7.4	8.6	10.4	11.4	11.0	11.6
Mean	4.8	4.6	4.8	..	..	..	6.7	8.5	9.6	11.1	11.2	11.4
Median	4.5	3.9	5.4	..	..	..	6.0	8.4	9.6	11.0	11.2	11.4
Count	10	10	5	3	1	..	31	30	29	28	29	29

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc.

Month : July 1958

TABLE 4—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	9.6	8.6	8.4	6.2	6.0			4.1	..	..	1
11.6	10.6	10.6	9.0	G	8.0	4.0			U4.6s	..	3.2	2
11.4	11.2	10.4	7.8	9.8	11.2	8.8		U5.8s	13.4	9.0	U8.0s	3
11.4	11.0	11.0	9.6	8.6	7.8				U5.8s	8.4		4
11.8	9.0	18.4	6.6	10.2	8.5				..			5
									..			
11.0	10.2	9.4	8.0	G	G				2.2		2.4	6
11.4	15.0	12.0	12.4	20.0	17.0	U7.0s		2.8	..	4.4	..	7
11.2	11.0	10.6	10.4	9.0	3.4	2.6			2.8	8.6	7.0	8
10.2	8.0	G	8.0	9.0	7.0						..	9
12.0	11.4	11.0	10.8	11.0	9.0						U5.8s	10
11.7	10.1	11.1	10.3	8.8	U8.1s	U6.2s				U7.2s	..	11
11.2	11.2	11.1	11.2	8.7	U6.3s	2.8				..	..	12
11.2	11.0	10.1	9.1	8.7	3.4					U6.0s	4.3	13
12.0	11.1	11.8	9.1	8.0	U4.7s	2.8				2.7		14
11.4	11.5	11.0	9.7	8.7	U6.4s	2.2				..		15
11.6	11.4	11.1	9.0	6.8	6.4	..						16
11.4	11.0	11.0	8.6	3.5	4.2	2.6	3.6	3.4			C	17
11.6	10.2	9.6	9.0	8.4	U5.0s	3.6			3.6	4.4	4.4	18
11.4	11.2	10.2	11.0	3.6	7.0	..			..	3.0	..	19
11.0	11.6	11.0	10.2	9.2	12.6	11.0	U6.0s	4.4	3.6	8.2	7.0	20
11.4	11.0	10.5	7.8	G	3.4	..				U7.0s	..	21
9.6	10.0	10.8	7.4	8.4	4.0	9.0				..	2.6	22
11.4	10.6	10.6	9.3	8.4	G					2.1	3.6	23
11.4	9.6	8.4	6.8	6.8	S		S	4.7		3.9	4.0	24
11.8	11.2	11.0	9.2	G	G				U4.5s	..	S	25
10.8	11.0	9.8	8.6	8.4	S	U7.0s	5.8			2.9	6.6	26
11.0	11.2	10.6	8.0	G	3.0	3.2			2.1	3.1	2.4	27
11.6	11.8	11.6	10.2	8.6	7.8	4.0			3.5	2.6	5.4	28
11.6	12.0	12.0	9.0	15.0	18.0	U7.0s			3.6	3.2	4.6	29
12.0	11.2	11.8	9.4	9.4	7.0					4.0	4.4	30
11.8	11.2	11.2	9.6	G	4.4					3.4	2.8	31
11.3	11.0	11.0	9.2	9.0	7.3	5.3	..	4.2	4.5	5.0	4.6	Mean
11.4	11.0	11.0	9.1	8.4	6.4	4.0	..	4.4	3.6	4.0	4.4	Median
30	30	31	31	31	29	17	3	5	12	19	17	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc.

Month : July 1958

TABLE 5

Ionospheric Data

75°0' E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2'4							3'1	3'6	4'0	C	C
2								3'1	3'6	4'0	4'2	4'4
3								3'0	3'7	4'1	4'2	4'6
4	3'1	2'4		2'2	2'2	2'6		3'2	3'6	4'1	4'2	4'5
5			2'2				2'3	3'3	4'1	4'3	4'3	4'4
6		..						3'1	3'6	4'0	4'2	4'4
7		2'2	2'6				2'3	3'4	3'8	4'2	4'4	4'5
8			2'0	2'4			2'7	3'0	3'5	4'0	4'2	4'5
9			1'9				2'1	3'0	3'5	3'9	4'1	4'4
10	2'0							3'0	3'6	4'0	4'3	4'5
11		2'4	2'2					..	3'6	4'1	4'3	4'4
12		..						3'0	3'7	4'0	4'3	4'4
13		1'7						..	3'5	4'0	4'3	4'8
14		2'3						3'0	3'6	4'0	4'8	4'6
15		..						..	4'2	4'0	4'3	4'4
16		2'1						..	3'4	3'9	4'1	4'2
17								..	3'5	3'8	4'2	4'5
18	C							3'0	3'4	3'8	4'3	4'3
19		1'9						3'0	3'4	4'0	4'2	4'3
20								..	3'8	3'9	4'4	4'3
21				..				5'0	5'1	4'0	4'2	4'4
22				1'9				..	..	4'3	C	C
23								3'0	3'8	4'0	4'1	4'4
24								3'0	..	4'0	4'2	4'6
25		2'2						3'1	3'6	4'0	4'3	4'5
26	3'3							3'3	..	C	4'3	4'7
27	2'4							C	C	C	C	4'8
28			2'2	2'2				..	..	4'4	4'8	4'7
29								3'2	..	..	..	..
30	2'0							..	3'8	4'1	4'4	4'8
31							2'2	3'2	3'8	4'3	4'6	4'6
Mean	2'5	2'2	2'2	..	..	..	2'3	3'2	3'7	4'0	4'3	4'5
Median	2'4	2'2	2'2	..	..	..	2'3	3'1	3'6	4'0	4'3	4'5
Count	6	8	6	4	1	1	5	21	25	28	26	29

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : FbEs

Unit : Mc.

Month : July 1958

TABLE 5—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	4.0	3.7	3.0	2.4				2.6	2.9	1
4.5	4.5	4.4	4.8	3.6	3.0	2.4				2.4	..	2
4.8	4.6	4.3	3.9	3.7	5.5	5.4	2.2	2.1	3.5	3.2	2.6	3
4.7	4.5	4.2	4.0	3.6	..	2.7			2.1	2.3	2.0	4
4.5	4.6	4.3	4.1	4.2	3.1	2.2				..	..	5
4.4	4.6	4.2	4.3	3.6	..	3.0				..	2.0	6
4.8	4.4	4.6	5.8	5.8	A	5.0				2.2		7
4.6	4.5	4.2	7.0	3.8	..	2.6				2.1		8
4.6	4.3	..	3.8	3.4	3.0	..						9
4.5	4.4	4.3	3.9	3.8	3.8	2.8					C	10
4.5	4.5	..	4.1	3.7	3.0	2.7	2.2			2.3	3.0	11
4.3	..	4.2	5.2	3.8	3.9	2.3			1.8	1.7	..	12
4.5	4.4	4.2	3.8	3.4	3.0	..				1.7	2.3	13
4.6	4.4	4.3	4.1	3.7	3.6	2.2	2.0			..	..	14
4.6	4.3	4.1	4.0	3.5	3.3	2.5	2.0			1.7	1.9	15
4.3	4.3	4.1	3.8	3.5	C	2.5					2.3	16
4.3	4.4	4.2	3.8	3.4	..	2.2		2.0			..	17
4.4	4.2	4.1	3.7	3.4	3.0	2.4					2.0	18
4.4	4.2	4.2	5.2	..	3.4	..			2.0			19
..	4.5	4.1	3.8	3.6	3.8	5.6	3.1	2.4		2.2		20
4.4	4.4	4.2	3.9	..	..	..				1.9	2.6	21
C	4.4	4.1	4.2	4.0	3.4	2.8	3.0					22
4.4	4.4	4.2	4.0	3.5	3.0	..						23
4.5	4.5	4.2	3.9	3.5	..	..	1.7	3.4	3.2		2.8	24
4.5	4.4	4.3	4.0	3.5	..	..			2.0	2.1		25
4.7	4.4	..	4.0	3.6	3.0	2.2	2.6				2.6	26
..	4.8	..	4.1	3.7	3.0	2.2					2.2	27
4.8	4.6	4.4	4.1	3.8	3.1	2.3						28
4.0	4.7	5.0	4.6	3.8	5.4	3.0	2.0			2.2		29
4.6	C	4.8	4.4	3.8	3.1	2.4					2.3	30
4.7	4.7	4.4	4.0	4.0	3.4	..					1.9	31
4.5	4.5	4.3	4.3	3.7	3.4	2.9	2.3		2.4	2.2	2.4	Mean
4.5	4.4	4.2	4.0	3.7	3.1	2.5	2.2		2.0	2.2	2.3	Median
27	28	26	31	29	23	23	9	4	6	14	15	Count

Sweep : 1 Mc. to 25 Mc. in 27 seconds,

Characteristic : fbEs

TABLE 5—Contd.

Latitude : 10.2° N

Unit : Mc.

Ionospheric Data

Longitude : 77.5° E

Month : July 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2.8	3.4	4.0	4.2	C	C
2		2.0					2.7	3.4	3.9	4.2	4.4	4.5
3							..	3.4	3.9	4.1	4.4	4.7
4			2.1	2.1	2.4		2.8	3.5	4.0	4.2	4.6	4.6
5		2.6					2.8	3.6	4.2	4.3	4.4	4.6
6		2.2					2.7	3.3	3.7	4.1	4.4	4.6
7	2.4	..	2.3				..	3.6	4.0	4.3	4.4	4.7
8		2.2	2.1				3.0	3.3	3.8	4.1	4.3	4.6
9							2.6	3.2	3.7	4.1	4.3	4.5
10	2.7						..	3.3	3.8	4.1	4.3	4.5
11		1.9					..	3.3	3.9	4.3	4.4	4.5
12		..					4.3	3.4	4.0	4.3	4.2	4.4
13	1.6	1.6					..	3.2	3.7	4.1	4.2	4.5
14		3.3					2.7	3.3	3.8	4.1	4.5	4.6
15		..					2.6	..	3.8	4.2	4.3	4.6
16	2.3						..	3.2	3.7	4.0	4.1	4.3
17							..	3.2	3.6	4.0	4.3	4.4
18							2.5	3.2	3.6	C	4.1	4.3
19							2.6	3.2	3.7	4.0	4.2	4.4
20							..	3.3	3.8	4.0	4.3	4.5
21	2.6						..	3.8	4.3	4.0	4.2	4.4
22				2.2			..	..	3.8	4.8	C	C
23				1.8			2.6	3.2	3.8	4.1	4.4	4.5
24							..	..	3.7	4.0	4.4	4.5
25	2.4	2.2	1.8				..	3.3	4.0	4.2	4.4	4.4
26		..					..	3.6	..	C	4.6	4.8
27		..					2.8	C	C	C	4.8	5.0
28		2.4					..	..	..	4.4	..	4.8
29							..	3.4	..	..	4.8	4.9
30							..	3.5	4.0	4.4	4.6	4.6
31							2.8	3.5	4.0	4.4	4.5	4.8
Mean	2.3	2.3	..	..	..	..	2.8	3.4	3.8	4.2	4.4	4.6
Median	2.4	2.2	..	..	..	..	2.7	3.3	3.8	4.1	4.4	4.5
Count	6	9	4	3	1	..	15	26	27	27	28	29

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fb' Es

Unit : Mc.

Month : July 1958

TABLE 5—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
G	C	4.3	4.0	3.4	2.7	2.0			3.0			1
4.5	4.6	4.1	4.0	..	2.6	1.9			2.6		2.3	2
4.7	4.5	4.2	3.8	4.1	6.2	3.7		2.8	3.1	2.4	3.1	3
4.7	4.3	4.2	3.9	3.4	2.8				2.1	2.5		4
4.4	4.5	6.1	..	3.4	2.7							5
4.5	4.4	4.2	3.9	..	..	..			2.0			6
5.0	4.6	4.2	5.8	A	6.0	2.4		2.1	..	2.2		7
4.6	4.4	4.0	4.0	3.1	2.5				1.7	3.0	2.7	8
4.5	4.4	..	3.7	3.2	2.6							9
4.5	4.6	4.2	4.0	4.5	3.1						2.2	10
4.5	..	4.2	3.9	3.3	2.8	2.3				2.2	..	11
4.3	4.4	4.1	4.3	3.3	2.6	1.9				..	..	12
4.4	4.2	3.9	3.7	3.2	2.7	..				1.8	2.2	13
4.5	4.4	4.2	3.7	4.0	3.9	1.7				1.8		14
4.3	4.2	..	3.7	3.3	3.4	1.8						15
4.3	4.2	4.0	3.8	3.3	2.5							16
4.4	4.2	4.0	3.6	3.4	2.5			2.0			C	17
4.4	4.2	4.0	3.6	3.3	2.5	2.0			1.8	2.0		18
4.3	4.2	4.0	3.8	3.5	2.8				..			19
4.6	4.5	4.0	3.6	3.5	3.8	5.2	2.8	2.2	2.4	2.6	2.7	20
4.6	4.4	4.0	3.8	..	2.6	..				2.1		21
4.4	4.5	4.1	3.8	3.5	3.0	2.6						22
4.4	4.3	4.0	3.8	3.3								23
4.3	4.3	4.1	4.0	3.4			2.7	3.0	..	3.4		24
4.4	4.5	4.2	3.8	..					1.8			25
4.4	4.3	4.2	3.8	3.4	..	2.8	1.7		2.2	2.2		26
4.8	..	4.1	4.0	3.4	2.7	2.0			1.8			27
4.6	4.6	4.4	4.0	3.6	3.0	..						28
..	4.8	4.8	4.0	4.0	6.8	2.5			2.0	2.2	2.2	29
4.7	4.4	4.8	4.0	3.5	2.8					2.2		30
4.7	4.6	4.4	4.1	..	..					1.8		31
4.5	4.4	4.2	3.9	3.5	3.3	2.5	..	2.4	2.2	2.3	2.5	Mean
4.5	4.4	4.2	3.8	3.4	2.8	2.2	..	2.2	2.0	2.2	2.3	Median
29	28	29	30	26	25	14	3	5	12	15	7	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic ; f min

Unit : Mc.

Month : July 1958

TABLE 6
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2.0	2.2	2.3	2.0	1.9	1.8	2.4	2.3	2.4	2.8	C	C
2	2.8	2.1	2.1	1.9	1.7	1.7	1.6	2.0	2.5	2.5	2.8	3.0
3	2.1	1.8	2.3	2.2	1.9	1.9	2.3	2.0	2.5	2.8	3.0	3.2
4	2.1	2.2	1.9	1.7	1.8	1.8	2.4	2.2	2.5	3.0	3.1	3.4
5	2.4	2.0	1.8	1.7	2.0	1.7	2.0	2.0	2.2	4.3	3.0	3.0
6	2.1	1.7	2.2	1.8	1.6	1.5	1.8	2.0	2.2	2.7	3.0	3.0
7	1.7	1.6	1.6	2.4	1.9	1.8	2.0	2.5	2.8	3.1	3.0	3.2
8	2.4	2.1	2.0	2.2	2.2	1.8	1.7	2.0	2.2	2.7	3.0	3.0
9	2.0	1.9	1.6	2.0	2.0	1.6	1.7	2.1	2.3	2.8	3.0	3.1
10	1.9	2.8	2.1	1.8	1.9	1.7	2.2	2.0	2.4	2.8	3.0	3.0
11	1.7	1.7	1.8	2.0	1.9	2.1	2.3	2.3	2.7	3.1	3.0	3.2
12	2.0	2.2	2.1	1.6	1.7	1.6	2.2	2.1	2.5	2.8	2.9	3.1
13	1.6	1.6	1.9	1.7	1.8	1.6	2.3	2.2	2.4	2.9	2.7	3.2
14	2.1	1.9	2.4	1.9	2.1	1.7	1.9	2.1	2.4	2.8	2.8	3.0
15	1.7	1.7	1.5	1.5	1.4	1.5	2.1	2.1	2.4	2.9	3.0	3.2
16	2.4	2.0	1.6	1.9	1.7	1.6	1.9	2.2	2.4	2.6	2.8	3.0
17	2.0	2.8	2.3	1.8	1.8	1.6	1.4	2.2	2.6	3.0	2.8	3.0
18	C	1.9	2.0	2.2	2.0	1.6	2.0	1.9	2.3	2.6	2.8	3.0
19	2.0	1.6	1.5	1.6	1.6	1.3	2.3	2.2	2.4	2.8	3.0	3.0
20	1.9	2.0	2.0	1.7	1.9	1.7	2.1	2.1	2.0	2.7	3.5	3.1
21	2.6	2.0	1.7	1.7	1.6	1.9	C	2.0	1.7	3.0	3.2	3.4
22	2.6	2.0	1.4	1.6	1.8	1.7	2.0	2.4	2.5	3.0	C	C
23	1.7	1.5	1.4	1.7	1.6	1.5	1.5	1.7	2.2	2.6	2.7	3.0
24	1.4	1.7	1.7	1.5	1.7	1.7	2.1	2.1	2.5	2.8	2.7	3.2
25	2.4	1.7	1.8	2.2	1.9	1.7	2.3	2.1	2.3	3.0	3.0	3.1
26	1.6	2.1	2.0	1.8	2.2	2.0	1.9	2.1	2.8	C	3.0	3.4
27	1.8	2.4	2.4	2.0	1.5	1.5	2.2	C	C	C	C	4.4
28	2.2	2.2	2.0	1.6	2.0	1.6	1.9	2.4	2.9	3.6	4.1	4.2
29	1.4	1.4	1.7	1.7	1.8	1.7	2.2	2.0	4.1	5.4	3.9	4.0
30	1.8	2.2	2.1	1.9	1.8	1.8	2.4	2.1	2.8	3.2	3.4	3.7
31	2.2	2.0	1.8	1.9	1.7	1.7	1.6	2.2	2.8	3.0	3.5	3.6
Mean	2.0	2.0	1.9	1.8	1.8	1.7	2.0	2.1	2.5	3.0	3.1	3.3
Median	2.0	2.0	1.9	1.8	1.8	1.7	2.0	2.1	2.4	2.8	3.0	3.1
Count	30	31	31	31	31	31	30	30	30	29	28	29

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : f. min.

Unit : Mc.

Month : July 1958

TABLE 6
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	2.8	2.7	2.0	1.6	1.8	2.1	2.2	2.4	2.7	1
3.2	3.0	3.0	2.6	2.4	2.4	1.4	1.8	1.9	2.3	2.3	2.4	2
3.6	3.6	3.2	2.9	2.5	1.8	1.6	1.4	1.7	1.9	1.9	1.6	2
3.2	3.2	3.2	2.9	2.6	2.3	1.6	1.7	1.8	1.5	2.0	1.7	4
3.1	4.6	3.1	2.4	2.3	1.8	1.3	1.6	1.8	1.9	1.8	1.7	5
3.2	3.1	3.2	2.6	2.4	2.2	1.8	1.6	1.8	1.8	1.8	1.8	6
3.5	3.2	3.0	2.6	2.6	2.0	1.3	1.7	1.8	2.0	1.5	2.0	7
3.2	3.1	2.9	2.6	2.4	2.0	1.6	1.9	2.0	1.8	1.8	2.7	8
3.2	3.1	3.2	2.6	2.4	2.2	2.2	1.4	1.8	1.7	2.2	2.2	9
3.2	3.0	3.0	2.7	2.5	1.7	1.5	2.7	1.8	1.7	1.9	C	10
3.2	3.3	4.7	3.2	2.8	2.2	1.6	1.3	2.0	2.3	1.7	1.9	11
3.1	5.2	2.9	2.6	2.4	1.7	1.4	1.6	1.8	1.6	1.6	1.8	12
3.2	3.3	3.0	2.6	2.5	2.2	2.3	1.6	1.8	1.7	1.6	1.9	13
3.2	3.1	3.0	2.8	2.4	2.1	1.5	1.5	1.5	1.7	1.8	1.9	14
3.4	3.3	3.2	3.1	2.7	2.3	1.7	1.7	1.8	1.6	1.6	1.8	15
2.9	3.2	2.9	2.5	2.6	C	2.0	1.7	1.7	1.9	1.9	2.2	16
3.3	3.2	3.0	2.6	2.4	2.0	1.8	1.7	1.6	2.0	1.8	2.0	17
3.1	3.2	3.0	2.7	2.6	2.1	1.5	1.4	1.9	2.0	1.8	1.8	18
3.3	3.0	3.0	3.0	2.4	2.4	2.2	2.0	2.0	1.6	1.6	1.9	19
5.1	3.2	3.0	2.4	2.2	1.7	2.2	1.8	1.6	2.0	1.7	2.2	20
3.6	3.2	3.3	3.0	2.8	2.4	2.1	1.3	1.7	1.5	1.5	2.2	21
C	3.1	2.9	2.4	2.6	2.0	1.6	1.8	1.8	2.0	1.9	1.8	22
3.2	3.0	3.0	2.8	2.6	2.4	2.2	1.6	1.8	1.8	2.0	1.7	23
3.0	3.0	2.9	2.6	2.7	2.2	2.2	1.5	1.6	1.9	3.1	2.6	24
3.0	3.2	3.2	2.8	2.7	2.3	2.3	1.5	1.8	2.0	1.9	1.8	25
3.8	3.2	4.8	2.8	2.7	2.5	1.7	1.4	1.6	1.8	2.0	1.6	26
4.9	4.0	4.6	3.0	2.8	2.2	1.4	1.4	1.9	2.0	1.4	1.4	27
3.8	3.4	3.2	3.1	2.8	2.0	1.6	1.7	1.7	1.6	1.4	1.6	28
4.0	3.8	3.2	3.8	2.6	2.4	1.8	1.5	2.0	1.7	1.8	1.3	29
4.0	C	3.2	3.2	3.6	2.1	2.2	1.3	1.8	1.9	2.0	1.5	30
3.7	3.8	3.6	2.8	3.0	2.7	2.2	1.7	1.7	1.6	1.5	1.7	31
3.5	3.4	3.2	2.8	2.6	2.1	1.8	1.6	1.8	1.8	1.8	1.9	Mean
3.2	3.2	3.0	2.8	2.6	2.2	1.7	1.6	1.8	1.8	1.8	1.8	Median
29	29	30	31	31	30	31	31	31	31	31	30	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc.

Month : July 1958

TABLE 6—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.4	2.3	2.2	1.7	2.0	2.1	2.1	2.2	2.8	2.7	C	C
2	2.5	1.7	2.2	1.8	1.8	2.2	1.7	2.0	2.6	2.5	2.9	3.2
3	1.9	2.2	2.2	1.7	1.6	2.2	2.2	2.3	2.5	2.7	2.7	3.5
4	2.6	2.2	1.7	1.5	1.8	2.4	2.2	2.3	2.8	3.1	3.3	3.4
5	2.3	2.1	1.7	2.2	1.8	2.1	1.8	2.2	2.4	3.0	3.0	3.0
6	2.0	1.6	2.3	1.8	1.7	2.0	1.8	2.2	2.6	2.8	3.1	3.0
7	2.1	3.0	1.5	2.1	2.0	2.0	2.7	2.5	3.2	3.0	3.2	3.1
8	2.4	1.8	2.0	2.7	2.1	2.1	1.8	2.2	2.5	2.8	3.0	3.2
9	2.2	2.4	1.9	2.4	1.8	1.9	1.8	2.2	2.4	2.9	3.0	3.0
10	2.4	2.2	2.2	1.7	1.9	2.2	2.3	2.2	2.8	2.8	3.2	3.2
11	1.6	1.7	2.3	2.0	1.7	2.1	2.1	2.4	2.9	3.4	3.1	3.2
12	2.2	2.0	1.7	1.6	1.8	1.9	1.6	2.3	2.6	2.9	3.0	3.1
13	1.4	1.3	1.6	1.7	1.6	2.0	2.6	2.2	2.5	2.7	3.0	3.2
14	2.0	2.1	2.3	1.7	2.0	2.2	2.0	2.4	2.5	2.8	3.0	3.1
15	1.7	1.6	1.4	1.4	1.6	1.7	1.9	2.4	2.8	3.0	3.1	3.3
16	2.2	1.6	2.1	1.6	1.6	1.9	1.9	2.3	2.5	2.6	2.9	3.0
17	2.4	2.4	2.2	1.6	1.5	2.0	1.7	2.4	3.0	2.7	3.0	3.0
18	2.1	2.1	2.3	2.4	1.4	1.9	1.6	2.0	2.2	C	2.8	3.0
19	2.2	1.9	1.7	1.7	1.6	1.7	1.9	2.1	2.5	3.0	3.0	3.3
20	1.9	1.9	1.7	1.7	1.8	1.9	2.0	2.3	2.6	2.8	3.1	3.0
21	2.1	2.0	1.5	1.5	1.7	2.3	2.2	2.6	2.8	2.9	3.2	3.6
22	2.4	1.8	1.5	1.2	1.8	2.3	2.0	2.8	2.6	3.0	C	C
23	1.7	1.4	1.6	1.4	1.4	1.7	1.5	2.1	2.4	2.8	3.0	3.0
24	1.6	1.7	1.8	1.8	1.6	2.1	2.0	2.4	2.6	3.0	2.8	3.0
25	1.6	1.8	1.6	2.2	1.6	1.8	2.1	2.3	2.7	2.7	2.8	3.2
26	2.2	1.7	2.1	2.0	2.0	1.8	1.6	3.1	3.9	C	3.2	4.4
27	2.1	2.8	2.0	1.7	1.6	1.9	2.0	C	C	C	4.8	4.0
28	2.2	1.8	2.0	2.2	1.9	2.0	2.1	2.7	3.4	3.5	4.8	3.8
29	1.7	1.8	1.8	1.7	1.7	2.2	1.7	2.3	7.6	3.9	4.4	4.0
30	2.6	2.3	1.9	1.7	1.9	2.0	2.2	2.4	3.0	3.4	3.6	3.8
31	2.2	2.0	1.7	2.0	1.7	1.7	1.9	2.4	3.0	3.0	3.4	3.6
Mean	2.1	2.0	1.9	1.8	1.7	2.0	2.0	2.3	2.9	2.9	3.2	3.3
Median	2.2	1.9	1.9	1.7	1.7	2.0	2.0	2.3	2.6	2.9	3.0	3.2
Count	31	31	31	31	31	31	31	30	30	28	29	29

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : f min

Unit : Mc

Month : July 1958

TABLE 6—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	3.1	2.6	2.4	1.9	1.5	1.8	2.2	1.7	3.4	3.4	1
3.4	4.6	2.6	2.7	2.4	2.2	1.6	1.8	2.0	2.4	2.2	2.0	2
3.4	3.2	3.0	3.0	2.3	1.7	1.5	1.7	1.9	2.3	1.6	1.6	3
3.0	3.0	2.8	2.6	2.6	1.8	1.6	2.0	1.7	1.6	1.7	1.7	4
2.9	3.0	3.0	2.8	2.1	1.6	1.7	1.8	1.9	1.9	1.9	2.0	5
3.0	3.2	3.0	2.8	2.2	2.0	1.7	1.5	1.6	1.7	1.5	1.7	6
3.4	3.0	2.7	2.8	2.3	1.5	1.3	1.8	1.5	2.0	1.8	2.5	7
3.2	3.0	2.6	2.7	2.2	2.1	1.7	2.0	1.7	1.5	2.1	1.6	8
3.1	3.0	3.0	2.8	2.2	2.1	1.7	1.7	1.7	1.9	2.1	2.0	9
3.2	3.0	3.3	2.7	2.1	1.6	1.8	1.8	1.7	2.0	2.0	1.7	10
3.1	5.2	4.0	3.1	2.5	1.7	1.4	1.8	2.1	1.8	1.7	2.1	11
3.0	3.2	2.6	2.6	2.1	1.5	1.4	1.6	1.9	1.8	1.9	1.6	12
3.1	3.0	2.8	2.7	2.4	2.0	1.9	1.7	1.6	1.6	1.5	1.9	13
3.3	3.0	3.0	2.7	2.1	2.3	1.3	1.9	1.8	1.9	1.7	1.6	14
3.8	3.2	4.3	3.0	2.4	1.9	1.7	1.6	1.7	1.8	2.0	1.9	15
3.1	3.2	2.8	2.6	2.4	1.8	1.8	1.8	1.8	2.0	2.0	2.2	16
3.2	3.2	3.0	2.6	2.4	2.1	1.6	1.6	1.3	1.8	2.0	C	17
3.1	3.0	2.8	2.6	2.2	1.8	1.5	1.7	1.9	1.3	1.5	2.0	18
3.2	3.0	3.0	2.8	2.6	1.8	2.0	1.7	1.2	1.5	1.5	2.1	19
3.2	3.2	2.8	2.4	2.0	2.4	1.6	1.3	2.0	2.1	2.0	2.4	20
3.6	3.2	3.0	2.6	2.4	1.9	1.5	1.6	1.5	1.6	1.6	2.6	21
3.1	3.0	2.8	2.9	2.3	2.0	1.8	1.7	1.7	2.0	1.8	1.7	22
3.0	3.1	2.9	2.9	2.3	1.9	1.5	1.7	1.9	1.8	1.6	1.5	23
3.0	3.0	2.6	3.0	2.4	2.3	1.5	1.2	1.8	2.5	3.0	2.4	24
3.2	3.2	3.0	2.9	2.6	2.2	1.6	1.6	1.9	1.5	2.0	2.0	25
3.0	3.2	3.2	2.8	2.6	2.2	1.3	1.6	1.8	2.2	1.6	1.6	26
4.4	4.6	3.2	2.7	2.4	1.8	1.6	1.9	2.0	1.6	1.4	1.7	27
3.6	3.4	3.6	3.2	2.2	1.8	1.6	1.7	1.8	1.7	1.7	1.2	28
4.8	3.8	3.0	2.7	2.4	2.2	1.4	2.0	1.9	1.4	1.4	1.9	29
3.8	3.4	3.0	3.0	2.2	2.2	1.7	2.0	2.0	1.9	1.4	2.2	30
3.6	3.6	3.2	3.2	5.0	2.4	1.7	1.6	1.5	2.0	1.3	1.6	31
3.3	3.3	3.0	2.8	2.4	2.0	1.6	1.7	1.8	1.8	1.8	1.9	Mean
3.2	3.2	3.0	2.8	2.4	1.9	1.6	1.7	1.8	1.8	1.7	1.9	Median
30	30	31	31	31	31	31	31	31	31	31	30	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h' F2

Unit : Km.

Month : July 1958

TABLE 7

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	C	C
2								L	L	L	L	L
3								L	L	L	L	LH
4								L	L	L	L	L
5												
6								"	L	L	L	L
7								"	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L ⁴⁶⁰
10								L	L		L	L
11								L	L	U320L	L	LH
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	LH	L
15												
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20												
21								A	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25												
26								L	L	C	L	L
27								C	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30												
31								L	L	L	L	L
Mean							
Median							
Count								I	..	I

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F2

Unit : Km.

Month : July 1958

TABLE 7—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
G L L LH L	G L L LH L	C L L L LH	L L LH LH L	L L L L L	L L L							1
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	A L L L L							2
L LH LH LH L	L L L LH L	L L L LH L	L L L LH L	L L L L L	L L L L L							3
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							4
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							5
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							6
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							7
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							8
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							9
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							10
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							11
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							12
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							13
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							14
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							15
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							16
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							17
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							18
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							19
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							20
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							21
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							22
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							23
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							24
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							25
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							26
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							27
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							28
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							29
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							30
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							31
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							Mean
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							Median
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	L L L L L							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h' F2

Unit : Km.

Month : July 1958

TABLE 7—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							L	L	L	L	C	C
2							L	L	L	L	L	L
3							L	L	L	L	L	L
4							L	L	L	L	L	L
5												
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10												
11							L	L	U335L	L	L	L
12							L	L	L	L	L	LH
13							L	L	L	L	L	LH
14							L	L	L	L	LH	L
15												
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20												
21							L	L	L	L	L	L
22							L	L	L	L	L	L
23							L	L	L	L	L	L
24							L	L	L	L	L	L
25												
26							L	L	L	C	L	L
27							L	L	L	C	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31												
Mean						
Median						
Count							1	..	..	..

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h' F2

Unit : Km.

Month : July 1958

TABLE 7—Contd.

Ionospheric Data

75.9° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C L L LH LH	C L L LH	L LH L LH	L L L L	L L L L	L							1
L	L	L	L	L								2
L	L	L	L	L								3
L	L	L	L	L								4
L	L	L	L	L								5
L	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	L								11
L	L	L	L	L								12
LH	L	L	L	L								13
u3000LH	LH	LH	LH	LH								14
L	L	L	L	L								15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
L	L	L	L	L								31
..	..	..	..	..	..							Mean
..	..	..	..	..	..							Median
1	..	..	..	..	..							Count

Sweep : 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h' F

Unit : Km.

Month : July 1958

TABLE 8

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	U405F	U370F	U320F	250F	220	220	270	240	225	210	C	C
2	U365F	300	280	270F	235	220	270	245	225	220	215	210H
3	305	U310F	U280F	240	225	240	265	245	230	215	205H	210H
4	U380F	U405F	U450F	U445F	U420F	U400F	275	245	235	215	210H	205
5	U340F	U340F	U360F	345F	280	245	270	240	240A	225B	215	215
6	400	340	305	240	200	225	270	245	230	220	200H	200H
7	320	330	300	260	220	220	270	250	235	215H	205H	200H
8	380	360	340	295	240	220	275	240	230	205	205H	200H
9	360	295	310	225	320	F	290	240	235	220	200H	215
10	235	240	240	230	220	240	260	240	220	215H	215H	200H
11	325	315	315	300	230	225	245	240	230	220	220	220
12	305	280	265	250	250	220	250	240	230	220	200H	215
13	385	F	370	300	245	230	260	250	230	215	200	200
14	U385F	U350F	U325F	280	250	225	270	240	235	220	U235A	220
15	345	320	295	280	240	210	245	235	240	225	215	200H
16	295	305	350	340	280	220	260	240	230	220	205	200
17	U430F	U380F	340F	275	220	220	260	240	220	215	200H	200H
18	C	280	265	240	210	220	255	230	220	205	220H	215
19	320	330	340	275	210	240	260	240	220	210	210	200H
20	300	260	220	225	240	240	260	240	225	220	205	200
21	300	300	285	240	225	220	C	A	A	220	210	200
22	280	310	480	535	U440F	385	275	245	230	U235A	C	C
23	300	280	265	265	235	220	260	235	235	215	215	205H
24	310	290	285	240	220	220	270	240	225	205	200	200
25	420	380	335	320	260	235	270	240	225	220	210	205H
26	U380F	355F	400F	350F	240	210	265	240	240	C	205	200H
27	315	320	265	245	240	240	275	C	C	C	C	215
28	400	340F	340	360	300	220	270	260	240	225	220	215
29	370F	340	280	250	240	225	280	240	240	B	240	210
30	365	370	300	260	240	220	275	245	230	230	215	210
31	320	280	280	260	245	235	280	245	230	220	220	215
Mean	345	320	315	285	255	235	265	240	230	220	210	205
Median	340	320	305	265	240	220	270	240	230	220	210	205
Count	30	30	31	31	31	30	30	29	29	28	28	29

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h' F

Unit : Km.

Month : July 1958

TABLE 8—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	200H	235	255	290	360	U430F	U400F	430F	400F	1
200H	200	210H	A	225	250	290	U400F	U510F	U460F	U400F	U310F	2
205H	210	210	220	230	A	A	AU370F	U405F	U380F	U340F	U360F	3
200H	205H	200	215	225	255	295	400F	U400F	U420F	U325F	U360F	4
205H	200	220	220	A	245	U295F	U410F	F	F	F	U410F	5
200H	220H	220H	230H	225	245H	A	400	400	340	390	F	6
230H	200H	220H	A	A	A	A	390	F	440	F	400	7
200H	200	215H	A	240H	240	295	400	F	F	F	415	8
215	215H	225H	220H	220	235H	280	340	400	340	300	260	9
195H	200H	220H	220	230	260	295	395	380	400	380	C	10
200	215H	200	215	235	255	290	365	U475F	F	U405F	385	11
210	B	200H	A	250	255	290	370	F	F	300F	U390F	12
200H	270	215	225	235	255	280	330	F	U395F	390	U375F	13
205	200H	200H	230	240	265	280	350	445	F	F	U400F	14
200	200	210	225	230	260	280	345	F	U375F	340	300	15
200	200	205H	205	230	C	280	320	F	F	F	F	16
200H	200H	200	220	230	240	280	320	U360F	U360F	400F	380F	17
200	200	205	200	230	240	260	320	360F	U400F	380	370	18
180H	180H	210	A	235	260	275	300	340	320	305	300	19
B	200	210	210	230	A	A	320	340	330	330	330	20
200	200	200	220	220H	240	275	340	U320F	U420F	U400F	U350F	21
C	215H	205H	220	AH	245	285	355	F	F	F	330	22
200H	210	210H	215	205	245	280	360	315	F	U400F	F	23
190H	220	205	220	230	255	275	360	440	470	F	F	24
200	205	215	225	230	250	280	360	400	U425F	410	375	25
200H	200H	U230B	220	225	250	285	380	425	475F	F	U360F	26
220	210	220	215	240	260	295	400	F	F	480	460	27
220	210	210	220	240	260	300	390	375	420F	F	F	28
210	205	U260A	240	235	A	300	380	U490F	F	390	380F	29
215	C	240	240	240	260	290	400	440F	420F	400F	440F	30
210	220	220	220	240	260	295	380	420F	420F	375	340F	31
205	205	215	220	230	250	285	365	405	400	375	365	Mean
200	220	210	220	230	255	285	365	400	400	390	375	Median
28	28	30	26	28	26	27	31	22	21	22	25	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h' F

Unit : Km.

Month : July 1958

TABLE 8—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 19.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	U380F	U370F	U295F	225	215	270	275	230	220	220	C	C
2	330	280	280	255	225	255	255	235	225	215	215	205H
3	320	U275F	U260F	225	220	260	250	235	220	215	205H	210H
4	U380F	U435F	U450F	U440F	U405F	350	255	235	220	220	205	205H
5	U360F	U360F	355F	U320F	250	280	255	240	230A	215	215	205H
6	340	330	280	230	220	275	260	240	220	200H	200H	200
7	340	340	280	225	220	270H	260	240	220	215	205H	200H
8	370	360	315	260	240	275	260	240	220	205	205H	200H
9	320	300	225	300	400	360	260	240	220	210	205H	200H
10	240	240	240	220	220	275	250	230	220	220H	210	200H
11	310	300	320	280	200	240	250	230	220	225	220	210
12	290	260	265	245	240	230	U260A	235	225	240	215H	215
13	380	390	340	280	255	260	250	235	225	205	210	200
14	U360F	F	300	260	240	250	260	240	225	215	225	210
15	330	310	290	260	220	240	240	235	230	215	210	200H
16	300	320	360	310	240	245	250	235	230	210	200	200
17	U420F	U360F	360F	240	220	260	250	240	220	210	200H	180H
18	300	280	260	230	200	260	245	220	210	C	215	205
19	330	340	320	220	220	275	240	230	215	210	200H	195H
20	280	260	230	220	240	260	250	230	220	200	200	200
21	290	300	260	240	220	240	240	U260A	U240A	210	210	200
22	290	420	525	F	420	320	255	240	220	A	C	C
23	295	280	265	255	225	230	245	230	220	215	205H	205H
24	310	285	275	230	220	255	250	235	205	200	200	200
25	U400F	375	325	295	240	255	255	230	225	205	205	210
26	U360F	380F	400F	295	210	245	250	240	220H	C	200	220
27	310	290	245	240	240	260	250	C	C	C	210	220
28	400	360F	365	340	260	255	270	240	240	220	220	220
29	345	310	270	240	230	260	260	240	B	235	220	210
30	360F	325	280	245	230	240	250	240	230	220	210	215
31	290	285	260	260	240	255	260	240	230	215	220	215
Mean	335	325	305	265	245	265	255	235	225	215	210	205
Median	330	315	280	250	230	260	250	235	220	215	210	205
Count	31	30	31	30	31	31	31	30	29	27	29	29

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h' F

Unit : Km.

Month : July 1958

TABLE 8—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	200H	235	240	270	320	400	U420F	U430F	U425F	U390F	1
210H	U210B	220H	220	240	265	330	U465F	U510F	U440F	U340F	U280F	2
200	210	200H	225	A	A	A	U405F	U400F	U360F	U360F	370F	3
200H	205	215H	225	240	270	335	F	U420F	U360F	U360F	U340F	4
205H	200	A	225	240	265H	U340F	F	F	F	U400F	420	5
200H	205H	220H	220H	235	260	320	400	F	400	380	300	6
AH	215H	220H	A	A	A	340	460	F	440	F	400	7
200	220H	220H	235	220H	260	320H	400	F	F	400	360	8
200H	220H	220H	220	230	245H	315	F	360	320	280	240	9
185H	220H	220	230	A	270	310	F	430	F	F	360	10
215	B	220	220	245	280	320	U410F	F	F	385	340	11
200	220	220	U265A	245	275	310	430F	F	U285F	U340F	380	12
205H	215	220	230	240	270	295	U360F	F	U400F	F	U380F	13
200H	200H	210H	240	U260A	U290A	300	400	F	F	F	380F	14
190	205	230	225	235	U285A	300	360F	F	U365F	340	300	15
200	200	210H	220	245	260	300	390	F	F	F	U440F	16
200H	220	220	225	240	260	290	350	U360F	360F	400F	C	17
200	200	205	230	240	260	285	340	360F	385	380	340	18
180H	200H	210	220	240	260	280	310	320	300	300	300	19
200	200	210	220	240	280	A	340	330	320	340	320	20
215H	200	200	220	225	260	300	U300F	U340F	U440F	U360F	295	21
205H	195H	205H	220	240H	275	305A	400	F	F	U320F	305	22
200H	210	210	200H	215H	260	300	440	F	U380F	U400F	330	23
185H	210	210	225	235	260	290	U405F	430	500	F	410	24
205	200H	210	230	240	265	300	385	U420F	410	385	380	25
205	210	225	225	235	265	315	440	460F	U495F	F	320	26
205H	220	210	240	250	270	330	440	F	460F	470	440	27
220	215	215	225	250	280	320	420F	390	F	F	F	28
205	225	240	240	U260A	A	310	420F	460F	450	440F	370F	29
210	220	240	240	240	280	330	440F	F	460	420F	380F	30
220	220	215	230	B	280	320	400	440F	390F	370	340F	31
200	210	215	230	240	270	310	395	405	400	375	350	Mean
200	210	215	225	240	270	310	400	420	400	380	360	Median
29	29	30	30	27	28	29	27	17	23	24	29	Count

Sweep 1 Mc. to 25 Mc 27 Seconds.

Characteristic : h^a E

Unit : Km.

Month : July 1958

TABLE 9

Ionospheric Data

75.0° E Mean Time

Latitude : 10° 2' N

Longitude : 77° 5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							110	110	A	A	C	C
2							110	A	A	105	A	A
3								105	105	A	A	A
4								105	105	A	A	A
5								A	A	B	A	A
6							120	105	105	A	A	A
7							120	A	A	A	A	A
8								105	A	105	A	A
9								A	A	A	105	A
10								105	105	A	105	A
11								115	A	A	A	A
12								A	105	105	A	A
13								110	105	A	A	A
14							125	105	A	A	A	A
15								110H	110H	A	A	A
16							130	115	105	110	105	A
17							120	A	115	A	105	A
18								A	A	105	A	A
19								115	A	A	A	A
20								110	105	105	B	A
21								110	110	110	A	A
22								115	110	A	C	C
23							120	105	A	A	A	A
24								110	105	105	A	A
25								110	A	A	A	A
26								110	115	C	A	A
27								C	C	C	C	B
28								120	120	B	B	B
29								110	B	B	B	B
30								115	115	A	A	B
31								110	115	110	B	B
Mean							120	110	110	105	..	..
Median							120	110	105	105	..	..
Count							7	24	17	9	4	..

Sweep 1Mc. to 25 Mc. in 27 Seconds.

Characteristic : $h' E$

Unit : Km.

Month : July 1958

TABLE 9
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2°N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	A	110	110							1
105	105	105	A	A	115							2
B	B	A	A	A	A							3
A	A	A	A	110	115H							4
A	B	A	A	A								5
A	A	110	105	105	115H							6
A	A	A	A	A	A							7
A	A	A	A	A	110							8
A	105	110	A	110	105							9
A	A	A	A	A	A							10
A	B	B	A	A	A							11
A	B	A	A	A	A							12
A	A	A	A	A	A							13
A	A	A	A	110	110							14
A	A	A	A	A	A							15
A	A	A	A	A	C							16
A	A	A	110	105	110							17
A	A	A	110	115	120							18
A	A	A	A	120	120							19
B	A	A	A	A	A							20
A	A	110	110	120	120							21
C	110	A	A	110	A							22
A	A	A	A	110	120							23
A	105	110	A	115	120							24
A	A	A	110	110	120							25
B	A	B	A	A	115							26
B	B	B	115	110	A							27
B	A	A	A	A	A							28
B	B	110	110	A	A							29
B	C	110	A	115	110							30
B	B	B	A	115								31
..	..	110	110	110	115							Mean
..	..	110	110	110	115							Median
1	4	7	7	16	16							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h' E

Unit : Km.

Month : July 1958

TABLE 9—Concl'd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10° 20' N

Longitude : 77° 5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							115	105	A	A	C	C
2							105	A	A	105	A	A
3							120	105	105	A	A	B
4							A	105	105	A	110	A
5								A	A	A	A	A
6							105	105	A	A	A	A
7							120	105	A	A	A	105
8							A	A	A	A	A	A
9							A	105	A	A	105	105
10							125H	A	105	105	A	A
11							120	110	A	A	A	A
12							A	A	105	A	A	A
13							115	105	105	A	A	A
14							120	A	A	A	A	A
15							115H	115H	110	A	A	A
16							120	110	105	105	A	A
17							120	115	110	A	A	A
18							110	A	105	C	A	A
19							A	110	A	A	A	A
20							120	110	110	105	A	A
21							120	110	110	A	A	A
22							115	115	A	A	C	C
23							105	A	A	A	A	A
24							115	110	105	A	A	A
25							110	110	A	A	A	A
26							105	120	B	C	A	B
27							120	C	C	C	B	B
28							120	120	B	115	B	B
29							110	110	B	B	B	B
30							120	110	115	B	A	B
31							115	110	A	A	A	B
Mean.							115	110	105	105	..	..
Median							115	110	105	105	..	..
Count							25	22	13	5	2	2

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h' E

Unit : Km.

Month : July 1958

TABLE 9—concl'd.

Ionospheric Data

75.0° E Mean Time

Latitude : 19.2° N

Longitude : 77.5° E

1230	1230	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	A	110	105								1
105	B	A	A	115	A							2
B	A	A	115	A								3
A	A	A	110	115								4
A	A	A	105	A								5
A	A	105	105	105	120H							6
A	105	A	A	A								7
A	105	A	A	A								8
105	105	110	A	105								9
A	A	A	105	A	A							10
A	B	B	A	A								11
A	A	A	A	A								12
A	A	A	A	A								13
A	A	A	110	105								14
B	A	B	A	A								15
A	A	A	A	110								16
A	A	115	110	115								17
A	110	110	115	115								18
A	A	A	A	120								19
A	A	A	A	A	A							20
A	110	110	110	120								21
A	A	A	105	110	120							22
A	A	110	A	110	120							23
A	A	A	120	115	130							24
A	A	A	110	115	130							25
A	A	A	A	115	125							26
B	B	120	110	110								27
A	A	A	115	110								28
B	A	110	110	A								29
B	110	A	115	110								30
B	B	A	115	B								31
..	110	110	110	110	125							Mean
..	110	110	110	110	120							Median
2	5	8	18	19	6							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h' Es.

TABLE 10

Latitude : 10° 2' N

Unit : Km.

Ionospheric Data

Longitude : 77° 5' E

Month : July 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	120							105	100	100	C	C
2							G	100	100	100	100	100
3								105	100	100	100	100
4	110	120		115	105	105		100	100	100	100	100
5			110				105	105	100	100	100	100
6							G	100	100	100	100	100
7		100	95				105	100	100	100	100	100
8			115	110			105	100	100	100	100	100
9			100				110	100	100	100	100	100
10	95							115	100	100	100	100
11		115	115					G	100	100	100	100
12								110	100	100	100	100
13		125						G	100	100	100	100
14		115					G	100	100	100	100	100
15								G	100	100	100	100
16		115					G	G	100	100	100	100
17							G	G	100	100	100	100
18	C							105	100	100	G	100
19		120						140	100	100	100	100
20	120							G	100	100	100	100
21	110	110						120	120	100	100	100
22				115				G	G	105	C	C
23							155	115	100	100	100	100
24	110							115	G	100	100	100
25	120	110	115				105	105	100	100	100	100
26	105							125	100	C	100	100
27	115							C	C	C	C	100
28			120	110			140	G	G	100	100	100
29	120							100	100	100	100	100
30	110							100	100	100	100	100
31							110	100	100	100	100	100
Mean.	110	115	110	..	..	..	115	105	100	100	100	100
Median	110	115	115	..	..	..	110	105	100	100	100	100
Count	11	9	7	4	1	1	8	22	27	29	27	29

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h' Es.

Unit : Km.

Month : July 1958

TABLE 10
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	100	100	105	105						1
100	100	100	100	100	110	100				120	120	2
100	100	100	100	100	100	100				115		3
100	100	100	100	100	G	100	100	100	100	105	105	4
100	100	100	100	100	100	100			115	100	120	5
100	100	100	100	100	G	135						6
100	100	100	100	100	100	100				115	115	7
100	100	100	100	100	G	100				115		8
100	100	G	100	100	100	100						9
100	100	100	100	100	100	100					C	10
100	100	100	100	100	100	100	100			115	115	11
100	100	100	100	100	100	100	100		105	120		12
100	100	100	100	100	110	100				115	115	13
100	100	100	100	100	100	100	100	100				14
100	100	100	100	100	100	110	110			100	100	15
100	100	100	100	100	C	140					120	16
100	100	100	100	100	G	140		100				17
100	100	100	100	100	100	100					110	18
100	100	100	100	100	G	120					120	19
100	100	100	100	100	100	100	100	100	115	120	115	20
									100	115		
100	100	100	100	G	100					120	115	21
C	100	100	100	100	100	120	140					22
100	100	100	100	100	105						120	23
100	100	100	100	100	105		100	100	100		115	24
100	100	100	100	100	G				130	115	120	25
100	100	100	100	100	100	110	100	120			110	26
100	100	100	100	100	100	100				120	120	27
100	100	100	100	100	105	100	100		125	110	120	28
100	100	100	100	100	100	100	120			100	100	29
100	C	100	100	100	100	120	105				120	30
100	100	100	100	100	115				130	120	135	31
100	100	100	100	100	105	110	105	105	115	115	115	Mean
100	100	100	100	100	100	100	100	100	115	115	115	Median
29	29	29	31	29	25	23	11	5	9	18	21	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'Es.

TABLE 10—*Concld*

Latitude : 10°2' N

Unit : Km.

Ionospheric Data

Longitude : 77°5' E

Month : July 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							105	100	100	100	C	C
2		115					105	100	100	100	100	100
3							G	100	100	100	100	100
4			115	110	105		105	100	100	100	100	100
5	115	115	115				105	100	100	100	100	100
6		105					105	100	100	100	100	100
7	110		90				G	100	100	100	100	100
8		120	115				110	100	100	100	100	100
9							100	100	100	100	100	100
10	100						G	100	100	100	100	100
11		110					G	100	100	100	100	100
12							105	105	100	100	100	100
13	125	120					G	100	100	100	100	100
14		115					110	100	100	100	100	100
15							105	G	100	100	100	100
16	110						G	100	100	100	100	100
17							G	100	100	100	100	100
18		105					100	100	100	C	100	100
19							120	100	100	100	100	100
20	115						G	100	100	100	100	100
21	110						140	120	100	100	100	100
22				110			G	G	100	105	C	C
23				100			115	100	100	100	100	100
24							G	G	100	100	100	100
25	110	110	110				105	100	100	100	100	100
26							135	125	100	C	100	100
27	115						105	G	C	C	100	100
28		115					G	G	G	100	100	100
29							100	100	B	100	100	100
30							100	100	100	100	100	100
31	120						100	100	100	100	100	100
Mean	115	115	110	..	..	..	110	100	100	100	100	100
Median	110	115	115	..	..	..	105	100	100	100	100	100
Count	10	10	5	3	1	..	20	26	28	28	29	29

Sweep 1 Mc. to 25 Mc in 27 seconds.

Characteristic : h' Es.

Unit : Km.

Month : July 1958

TABLE 10—Concl'd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	100	100	105	105	100			120			1
100	100	100	100	G	105	100			120		115	2
100	100	100	100	100	100	100			110	105	100	3
100	100	100	100	100	110			100	115	115		4
100	100	100	130	100	100							5
100	100	100	100	G	G				120		120	6
100	100	100	100	100	100	100		100		120	120	7
100	100	100	100	100	100	100			115	105	110	8
100	100	G	100	100	100							9
100	100	100	100	100	100						110	10
100	100	100	100	100	100	100				115		11
100	100	100	100	100	100	100						12
100	100	100	100	100	120					120	120	13
100	100	100	100	100	130	100				120		14
100	100	100	100	100	105	110						15
100	100	100	100	100	110							16
100	100	100	100	140	100	100	110	100			C	17
100	100	100	100	100	100	100			115	115	120	18
100	100	100	100	135	100					120		19
100	100	100	100	100	100	100	100	100	120	105	110	20
100	100	100	100	G	100					115		21
100	100	100	100	100	130	115						22
100	100	100	100	100	G					120	125	23
100	100	100	100	105	S		100	100		120	110	24
100	100	100	100	G	G				120		110	25
100	100	100	100	100	105	100	100			120	115	26
100	100	100	100	G	150	105			120	115	100	27
100	100	100	100	100	100	100			120	125	115	28
100	100	100	100	100	100	100			100	100	100	29
100	100	100	100	100	100					120	125	30
100	100	100	100	G	110					120	130	31
100	100	100	100	105	105	100	..	100	115	115	115	Mean
100	100	100	100	100	100	100	..	100	120	120	115	Median
30	30	30	31	25	27	17	4	5	12	19	17	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : (M 3000) F₂

TABLE II

Latitude : 10° 2' N

Unit :

Ionospheric Data

Longitude : 77° 5' E

Month : July 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	F	F	F	F	3'25 ^F	3'15	2'80	2'75	2'50	2'25	C	C
2	2'35 ^F	2'60	2'65	F	F	U3'10 ^F	2'80	2'45	2'50	2'30	2'20	2'15
3	2'60 ^F	F	F	3'00 ^F	3'20	3'15	2'95	2'85	2'55	2'35	2'20	2'10
4	U2'40 ^S	F	U2'15 ^S	F	F	F	2'80	2'65	2'40	2'25	2'10	2'10
5	F	F	F	F	F	3'05	2'70	2'50	2'40	2'25	2'20	2'20
6	F	F	F	F	3'15	U3'10 ^S	2'75	2'65	2'40	2'20	2'20	2'05
7	F	F	F	F	F	3'40	2'75	2'75	2'40	2'10	2'05	2'10
8	F	F	F	2'80 ^F	F	F	2'90	2'60	2'35	2'35	2'10	2'05
9	2'45	U2'60 ^S	S	2'95 ^F	F	F	2'55	2'55	2'40	U2'25 ^R	2'15	2'20
10	2'85	2'90	2'95	U3'00 ^S	3'25	3'30	3'15	2'95	2'65	U2'30 ^R	2'10	2'15
11	F	U2'50 ^F	2'55	2'70	3'25	3'40	3'05	2'90	2'70	2'35	2'15 ^H	2'20
12	F	F	2'80	2'85	U3'00 ^S	3'30	3'10	2'75	2'50	2'30	2'20	2'15
13	F	F	FS	U2'50 ^S	FS	3'10	2'90	2'80	2'60	2'25	2'15	2'20
14	F	F	F	F	F	U3'15 ^S	3'00	3'05	2'80	2'35	2'20	2'15
15	F	FS	U2'65 ^S	2'80	U3'05 ^H	U3'40 ^S	3'10	3'05	2'90	2'70	2'35	1'95 ^H
16	2'65	2'60	U2'55 ^S	2'55	2'80	U3'30 ^S	3'00	2'90	2'70	2'30	2'15	2'15
17	F	F	F	F	F	U3'30 ^F	U2'95 ^F	2'90	J2'75 ^R	2'35	2'10	2'30
18	C	2'75	J2'90 ^R	3'20	3'40	3'25	3'05	3'00	2'70	2'55	2'45	2'25
19	U2'60 ^F	2'60	2'60	U2'85 ^S	3'50	3'20	3'00	2'90	2'70	2'30	2'30	2'20
20	2'75	U3'10 ^S	J3'20 ^S	3'45	3'25	3'30	2'95	U3'05 ^S	2'80	2'60	2'40	U2'00 ^W
21	2'80	2'65	2'75	U2'90 ^S	3'30 ^S	3'30	C	A	2'90	2'60	U2'30 ^R	2'15
22	S	U2'60 ^S	2'05	2'20	F	U2'50 ^F	2'80	3'00	2'75	2'60	C	C
23	F	U2'60 ^F	F	F	3'00 ^F	3'30 ^F	F	3'00	2'70	J2'45 ^R	2'15	2'20
24	F	F	F	F	3'10	U3'45 ^F	U3'05 ^S	3'00	2'70	2'40	2'20	2'15
25	F	F	F	F	F	F	U3'00 ^F	2'80	2'45	2'10	2'10	2'15
26	F	F	F	F	3'00	3'45	3'00	3'05	2'75	C	2'15	2'10
27	F	F	F	F	3'00	3'10 ^F	2'90	C	C	C	2'15	2'15
28	F	F	F	F	F	3'20	2'95	2'90	2'75	2'60	2'35	U2'15 ^R
29	F	F	F	F	F	F	3'00	2'80	2'50	2'35	2'15	2'00
30	F	F	F	F	U3'00 ^F	3'20	3'00	2'85	2'45	2'25	2'10	2'05
31	F	F	F	F	F	3'00	2'85	2'60	2'40	U2'10 ^R	2'10	2'00
Mean	2'60	2'70	2'65	2'85	3'15	3'20	2'90	2'85	2'60	2'35	2'20	2'15
Median	2'60	2'60	2'65	2'85	3'15	3'20	2'95	2'85	2'60	2'30	2'15	2'15
Count	9	11	12	14	17	26	29	29	30	29	28	29

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : (M 3000)F₂

Unit :

Month : July 1958

TABLE II

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
C	C	C	2'05	2'10	2'10	2'15	2'10	2'10	U2'10F	F	F	1
2'15	2'10	2'10	2'10	2'20	2'20	2'15	2'05	F	F	F	F	2
2'15	2'05	2'10	2'20	2'20	U2'25S	U2'25S	2'20	2'15	2'30	2'45	U2'40F	3
2'00	2'00	2'00	2'05	2'05	2'10	2'15	U2'05F	F	F	F	F	4
2'10	2'15	2'10	2'15	U2'25R	2'25H	U2'25S	F	F	F	F	F	5
2'00	2'10	2'10	2'25	2'30	2'30	2'35	2'15F	F	F	F	F	6
2'00	2'00	2'05	2'10	2'10	A	2'20	2'10	U2'00F	F	F	F	7
2'05	2'00	2'00	2'20	2'15	2'15	U2'25S	2'20	F	F	F	2'30F	8
2'20	2'20	2'20	2'15	2'10	U2'05R	U1'90S	U2'10S	2'00	2'15	2'55	U2'80S	9
2'15	2'10	2'20	2'25	2'30	U2'25S	U2'15S	FS	F	F	F	C	10
2'20	2'20H	2'20	2'20	2'15	2'10	2'20	2'15	2'05	U2'05F	2'15	F	11
2'05	2'05	2'10	2'25	2'30	2'25	2'25	2'15	F	F	F	F	12
2'20	2'20	2'25	2'25	2'30	2'25	2'25	U2'30S	2'30	U2'30S	2'35	F	13
2'10	2'10	2'10	2'10	2'20	U2'40S	U2'55S	2'35	U2'25S	F	F	F	14
2'20	2'05	2'15	2'15	2'25	2'35	2'40	2'35	J2'35F	U2'45S	2'55	FS	15
2'20	2'20	2'20	2'20	2'30	C	2'45	2'40	F	F	F	F	16
2'20	2'20	2'25	2'25	2'30	U2'40S	2'40	2'35	F	F	F	F	17
2'05	2'20	2'35	2'35	U2'40S	J2'35R	U2'40S	2'40	2'30F	U2'30S	U2'40S	U2'45F	18
2'15	2'25	2'40	J2'40R	J2'50R	2'60	2'65H	2'65	2'60	U2'60S	2'60	U2'65S	19
2'15	2'15	2'20	2'20	2'20	2'30	J2'50S	U2'50S	2'45	2'55	U2'55S	U2'65S	20
2'20	2'20	2'30	2'35	2'40	2'45	2'55	U2'45S	F	F	F	U2'55F	21
C	2'25	2'15	2'00	2'05	2'20	2'35S	2'30	U2'15S	F	F	F	22
2'15	2'10	2'10	2'10	2'10	2'25	2'30	2'25	F	F	F	F	23
2'10	2'10	2'20	2'15	2'15	2'25	2'25	U2'25S	2'15F	F	F	F	24
2'05	2'10	2'10	2'10	2'15	J2'30S	J2'35S	2'20	2'15	2'15	F	F	25
2'05	2'05	2'10	2'10	2'10	2'15	2'15	2'05	2'00	2'00	F	F	26
2'15	2'05	2'10	2'20	2'30	2'30	2'20	2'05	F	F	F	F	27
1'95H	2'00	2'05	2'05	2'10	2'15	U2'20S	2'10	F	F	F	F	28
2'00	1'95	2'05	2'10	2'20	2'25	U2'30S	2'15	F	F	F	F	29
2'05	C	2'05	2'05	2'05	2'05	2'10	2'00	F	F	F	F	30
2'05	2'00	2'00	1'95	2'00	2'10	2'20	U2'10S	2'00	2'10	2'20	2'15	31
2'10	2'10	2'15	2'15	2'20	2'25	2'30	2'20	2'20	U2'25	2'40	U2'50	Mean
2'10	2'10	2'10	2'15	2'20	2'25	2'25	2'20	2'15	U2'20	2'45	U2'50	Median
29	29	30	31	31	29	31	29	16	12	9	8	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : (M3000)F2

TABLE 11—*Conold.*

Latitude : 10.2° N

Unit :

Ionospheric Data

Longitude : 77.5° E

Month : July 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	F	F	F	3'35	2'95	2'75	2'70	2'35	2'20	C	C
2	2'45	2'65	U2'70F	F	F	2'95	2'60	2'40	2'35	2'25	2'15	2'10
3	2'60F	F	F	U3'05F	3'15	2'85	2'90	2'65	2'45	2'30	2'15	2'15
4	U2'40F	U2'30F	U2'30F	F	F	F	2'75	2'50	2'35	2'15	2'05	2'00
5	F	F	F	U2'35F	U2'80F	2'90	2'50	2'50	2'30	2'20	2'15	2'10
6	F	F	F	F	U3'20S	2'95	2'65	2'55	2'25	2'25	2'15	2'05
7	F	F	F	F	3'15F	2'75H	2'80	2'50	2'25	2'10	2'10	2'05
8	F	F	F	F	F	U2'90F	2'80	2'45	2'30	2'20	2'15	2'10
9	U2'65S	U2'55S	U2'75S	2'75F	F	U2'25F	2'70	2'40	2'20	2'20	2'10	2'20
10	U2'85S	2'90	U2'90S	3'10	3'35	2'95	3'05	2'75	2'45	2'10	2'15	2'10
11	F	2'60	2'65	2'80	3'15	3'00	3'00	2'80	2'50	2'20	2'20	2'25
12	F	U2'75F	U2'80F	2'95	U3'10S	3'15	2'95	2'65	2'40	2'25	2'20	2'10
13	F	F	FS	U2'60S	2'85	3'00	U2'80S	2'75	2'45	2'20	2'20	2'20
14	F	F	F	F	F	U3'05S	U3'00S	U2'90R	2'50	2'20	2'20	2'15
15	FS	FS	2'75	2'90	U3'40S	U3'05S	3'20	3'05	2'75	2'50	2'15H	U2'10W
16	2'65	2'60	2'50	2'65	U3'10S	3'15	3'00	2'75	2'50	2'10	2'25	2'20
17	F	F	F	F	U3'40F	U3'00F	2'85	2'90	2'60	2'15	2'30	2'35
18	F	2'85	3'10	3'35	U3'40S	3'00	3'05	2'85	2'70	C	2'40	2'10
19	U2'60F	2'60	U2'70S	3'20	3'05H	2'85	3'00	2'80	2'40	2'25	2'30	2'15
20	U2'85S	U3'10S	U3'35S	3'30	3'30	2'90	3'00	3'00	2'70	2'50	U2'10R	U2'05W
21	U2'70S	2'65	2'80	U3'10S	U3'35S	3'10	3'10	3'00	2'80	2'50	2'25	2'20
22	2'95	F	2'10	2'25	2'50	2'65	2'90	2'85	2'65	2'55	C	C
23	U2'50F	F	F	F	U3'10F	F	F	2'85	U2'60R	2'30	2'20	2'25
24	F	F	F	F	3'30	2'9S	3'00	2'85	2'55	2'20	U2'15R	2'10
25	F	F	F	F	F	F	U2'95F	2'65	2'20	2'10	2'10	2'10
26	F	F	F	F	3'25	2'75	3'05	3'00	2'60	C	2'05	2'10
27	F	F	F	2'95	3'00	U3'05F	2'70	C	C	C	2'15	2'20
28	F	F	F	F	2'95	2'90	U2'90S	2'80	2'70	2'45	2'25	U2'05R
29	F	F	F	F	F	3'00	U2'90S	2'60	U2'50R	2'20	2'05	2'05
30	F	F	F	U3'00F	U3'10S	3'00	2'90	2'60	2'35	2'25	2'15	2'00
31	F	F	F	2'90	F	2'85	2'75	2'50	2'20	2'20	2'10	2'05
Mean	2'65	2'70	U2'70	2'90	3'15	2'90	2'90	2'70	2'45	2'25	2'15	2'10
Median	2'65	2'65	U2'75	2'95	3'15	2'95	2'90	2'75	2'45	2'20	2'15	2'10
Count	11	11	13	17	23	28	30	30	30	28	29	29

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : (M 3000)F₂TABLE 11—*Concld.*

Latitude : 10° 2' N

Unit :

Ionospheric Data

Longitude : 77° 5' E

Month : July 1958

75.0° E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
C	C	2'00	2'05	2'05	2'10	2'15	2'10	2'10	F	F	F	1
2'10	2'10	2'10	2'20	2'20	U2'20S	U2'10	U2'00F	F	F	F	F	2
2'05	2'05	2'15	2'15	U2'25S	U2'30S	U2'20S	2'15	2'25	2'40	2'40F	U2'45S	3
2'00	1'95	2'05	2'10	2'05	2'20	2'15	F	F	F	F	F	4
2'15	2'15	2'10	2'20	2'30	2'25	U2'15S	F	F	F	F	F	5
2'00	2'05	2'20	2'30	2'30	2'35	U2'30S	F	F	F	F	F	6
2'00	2'00	2'05	2'10	A	U2'25S	2'20	2'05	U2'05F	F	F	F	7
2'00	1'95	2'10	2'20	2'15	2'25	2'20	F	F	F	F	2'45	8
2'25	2'20	2'20	2'10	U2'10R	U1'95S	U2'05S	2'00F	F	U2'35S	U2'65S	U2'80S	9
2'10	2'15	2'30	2'25	2'25	U2'20S	U2'10S	F	2'05	U2'30F	F	F	10
2'25	2'10	2'15	2'20	2'10	2'15	2'20	2'15	F	U2'10F	FS	F	11
2'05	2'10	2'15	2'25	2'30	2'25	U2'20S	U2'05S	F	F	F	F	12
2'20	2'20	2'30	2'25	2'25	2'30	U2'25S	2'30	2'35	U2'30S	F	F	13
2'15	2'05	2'05	2'15	2'25	U2'50S	U2'55S	U2'40S	U2'15S	F	F	F	14
2'05	2'05	2'15	U2'20R	2'20	2'40	2'40	2'30	U2'35S	U2'5CS	U2'55SF	2'70	15
2'10	2'20	2'20	2'25	2'45	U2'50S	2'55	2'30	F	F	F	F	16
2'25	2'25	2'25	2'30	2'40	2'45	2'40	2'35	F	F	F	C	17
U2'05W	2'25	2'35	2'35	J2'35R	J2'40R	U2'40S	U2'35R	U2'30SF	U2'30S	2'40	2'55F	18
2'20	2'30	2'40	U2'45S	2'50	2'60H	U2'70S	2'65	U2'65S	2'60	2'60	2'70	19
2'15	2'20	2'20	2'25	2'25	2'35	2'55	2'45	2'50	U2'55S	U2'60S	U2'75S	20
2'20	2'30	U2'35R	2'35	2'45	U2'60R	2'50	F	F	F	F	2'75	21
2'30	2'20	2'05	2'05	2'15	U2'25S	U2'45S	2'25	F	F	F	F	22
2'10	2'10	2'10	2'05	2'15	2'30	2'30	U2'05F	F	F	F	F	23
2'10	2'15	2'15	2'15	2'20	2'25	U2'25S	2'15	2'15	F	F	F	24
2'15	2'10	2'10	2'10	2'20	2'35	2'30	2'15	2'15	U2'25F	F	F	25
2'05	2'05	2'10	2'15	2'15	2'15	2'10	2'05	2'00	F	F	F	26
2'05	2'05	2'10	2'25	2'30	2'25	2'15	1'95	F	F	F	F	27
2'05	2'05	2'05	2'10	2'15	U2'25S	2'20	2'00	F	F	F	F	28
2'00	2'00	2'05	2'15	2'25	U2'30S	2'25	2'05	F	F	F	F	29
2'10	2'10	2'05	2'05	2'10	2'05	2'05	U1'95F	F	F	F	F	30
2'00	2'00	2'00	2'00	2'05	2'15	U2'15S	2'00	2'05	U2'15R	2'20	2'25	31
2'10	2'10	2'15	2'20	2'25	2'30	2'25	2'15	2'20	U2'35	2'50	2'60	Mean
2'10	2'10	2'10	2'20	2'20	2'25	2'20	2'15	2'15	U2'30	2'55	2'70	Median
30	30	31	31	30	31	31	25	14	11	7	9	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F₂

TABLE 12

Latitude : 10° 2' N

Unit : Mc

Ionospheric Data

Longitude : 77° 5' E

Month : August 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	U9'0F	F	8'6F	8'6	7'7	6'2	U8'5s	11'2	U12.0s	12'4	12'1	11'8
2	10'9	10'5	U9'6s	U9'8s	U9'2s	7'3	8'4	10'7	U11.6s	11'3	11'0	10'7
3	C	U9'4s	U9'2s	8'3	U9'2s	9'2	U9'6s	U11'7s	12'5	12'5	11'6	11'0
4	10'6	9'8	U9'1s	8'6	8'5	U7'2s	8'5	10'6	11'4	11'6	11'1	U11'OR
5	F	F	10'8	U10'8s	U10'2s	7'7	7'8	10'4	11'6	J12'2R	12'0	11'1
6	U10'9F	U10'4F	10'5	U9'3F	6'5	4'2	U7'3s	10'2	11'8	12'2	11'3	10'1
7	F	F	10'5F	11'0	8'4	4'4	U7'2s	10'3	11'3	12'1	12'0	10'9
8	10'8	10'1	9'9	9'6F	9'6	5'8	U7'2s	10'4	11'2	10'8	10'5	10'4
9	F	U9'8F	U9'3s	U9'4F	8'3	F	7'1	10'0	11'1	10'6	10'1	C
10	F	F	F	10'1F	8'0	6'3	7'7	9'9	11'4	12'0	11'2	10'8
11	F	F	F	F	8'6F	6'5	7'4	10'0	10'9	11'1	10'9	10'4
12	U10'3F	10'2	10'1	10'7	9'5	5'9	U7'5s	10'0	10'5	10'5	10'1	10'2
13	F	F	F	6'6	5'9	4'5	7'0	9'7	11'3	10'9	9'2	9'2
14	10'8F	10'9	10'9	11'0	10'9	8'0	U7'1s	9'8	11'3	11'4	10'4	10'0
15	F	U11'0F	10'7	10'0	F	F	F	U10'6F	11'2	9'8	10'0	10'0
16	F	10'7	F	F	7'2F	4'7	6'8	9'6	10'9	11'3	B	11'2
17	11'0	F	J9'6s	F	F	F	U7'2s	10'2	11'4	11'5	11'1	10'9
18	10'9	8'5	8'1	8'4	7'9	7'6	9'3	10'8	12'4	12'5	10'9	11'0
19	10'4F	U10'0F	F	F	U9'4F	7'5	7'8	10'8	12'2	12'6	12'3	11'3
20	J9'9F	F	9'0	8'9	8'5	6'8H	8'1	11'0	12'4	12'8	11'7	11'2
21	F	U9'4F	8'3F	F	7'8F	J7'3F	7'9	10'1	11'5	11'5	11'3	11'4
22	U11'6F	U11'3s	F	F	7'6	U6'2s	7'8	10'7	11'9	12'0	11'8	11'9
23	U10'2s	FS	U10'7s	J 11'1s	U9'6s	FS	FS	11'1	12'3	J12'0R	10'9	10'9
24	F	F	F	F	F	U7'4F	C	C	C	C	C	C
25	U7'9s	8'0	U7'9s	U8'0s	7'7	7'2	8'9	12'0	13'4	14'0	13'7	12'4
26	F	U9'9FS	9'0	8'6	U7'7s	6'2	8'0	11'4	13'0	13'7	U13'2R	11'9
27	11'4	10'7	9'6	8'9	8'3	6'8	7'8	11'0	12'5	12'5	11'2	10'4
28	FS	9'2	9'4	9'1	9'2	8'4	9'8	12'3	13'1	13'6	12'6	12'0
29	11'0	10'6	U9'6s	10'0	9'7	8'6	8'8	11'3	12'7	12'8	11'8	11'4
30	U11'8s	11'2	10'6	10'6	9'1	6'0	7'6	11'0	12'0	11'8	11'1	10'7
31	F	9'8	8'1	7'3	6'7	5'6	7'8	11'1	12'7	13'7	12'8	11'8
Mean	10'6	10'1	9'5	9'4	8'5	6'6	7'9	10'7	11'8	12'0	11'4	11'0
Median	10'8	10'1	9'6	9'4	8'4	6'8	7'8	10'6	11'7	12'0	11'2	11'0
Count	17	21	24	24	28	27	28	30	30	30	29	29

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F₂

Unit : Mc

Month : August 1958

TABLE 12

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11.5	11.6	11.8	11.6	11.1	11.0	11.1	U12.0s	U11.2s	U9.8s	U9.8s	10.6	1
10.8	10.4	10.6	10.7	10.8	10.9	10.7H	U9.6Fs	U8.6F	F	U10.3F	F	2
10.6	10.9	11.1	11.6	A	12.4	12.7	U12.0s	U11.1R	U11.6F	U11.6s	U11.5s	3
10.8	11.0	10.9	10.8	10.8	10.5	10.7	10.4	U9.0F	U8.6F	F	F	4
10.5	10.0	9.6	9.6	9.8	10.0	J10.5R	10.0	U9.0F	F	F	F	5
9.6	9.5	9.5	9.3	9.5	9.7	U9.9s	9.3	U8.4F	F	U8.4F	U8.9F	6
10.2	9.8	9.7	9.8	10.2	10.9	11.4	10.6	9.7	9.8	10.6	10.9	7
10.2	10.2	10.4	10.7	11.0	11.1	11.4	10.9	F	F	F	F	8
C	9.5	9.9	10.2	10.0	10.5	10.5	U9.2F	U8.5F	F	F	F	9
10.7	11.5	12.1	12.3	12.7	13.1	12.2H	10.7H	F	F	F	F	10
10.5	10.8	11.0	11.3	11.4	11.6	U11.4R	U9.7s	U8.7F	F	U8.5F	F	11
10.7	11.6	12.5	12.8	12.9	12.9	U12.8s	U11.2s	F	F	F	10.5	12
9.0	9.8	9.9	10.0	10.7	11.0	11.4	10.7	U9.8s	9.7	U9.9s	10.0	13
9.7	9.7	9.9	10.1	10.6	11.1	11.1	U9.9s	F	F	F	F	14
10.0	10.1	10.1	10.3	10.8	11.6	U11.9s	10.8	F	F	F	F	15
10.8	9.8	9.8	9.6	9.5	10.0	10.0	9.0	F	F	F	U10.6F	16
10.7	10.0	9.4	10.0	10.8	10.9	11.4	10.5	U9.4s	10.5	11.4	13.4	17
11.6	11.8	12.5	13.0	12.9	12.8	U12.8R	U11.6s	11.1	11.4	11.4	U11.2F	18
11.0	11.2	11.4	11.4	11.7	11.6	10.9	9.2	U7.8F	F	U8.7F	F	19
11.3	10.9	10.8	10.7	10.6	10.3	J9.8s	8.7F	F	F	F	10.1F	20
11.1	11.3	11.6	11.4	10.9	10.8	10.5	9.5	F	F	F	F	21
11.8	11.8	11.8	11.3	10.5	U10.0s	U9.5s	U9.4s	U9.0s	8.8	8.8	U9.4s	22
10.8	10.9	10.9	J11.1s	11.1	10.9	S	8.1	F	F	F	F	23
C	C	10.0	9.5	9.4	9.8	U9.5s	9.0	7.9	U7.8F	7.6F	U7.8F	24
11.7	11.6	11.6	11.6	U11.4s	11.0	10.7	8.9	U7.5F	F	F	F	25
11.3	11.4	11.8	11.8	U11.7s	U11.9s	12.0	11.0	10.2	10.5	10.6	S	26
11.2	10.6	10.9	11.2	11.5	11.5	U10.6s	U9.8s	9.0	U9.8s	10.9	FS	27
11.3	11.2	11.0	10.8	10.9	11.1	11.0	9.6	F	F	S	U11.2s	28
10.9	10.7	10.7	10.6	10.8	11.6	11.6	11.0	11.4	12.5	13.5	13.3	29
10.9	10.4	10.3	10.7	11.0	11.1	11.2	10.2	U10.0F	F	F	F	30
10.8	10.5	11.3	11.8	11.7	12.4	12.9	11.5	11.0	11.5F	F	U13.0F	31
10.8	10.7	10.8	10.9	11.0	11.2	11.1	10.1	U9.4	10.2	10.1	U10.8	Mean
10.8	10.8	10.9	10.8	10.8	11.0	11.1	10.0	U9.0	9.8	10.3	U10.6	Median
29	30	31	31	30	31	30	31	21	13	15	15	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F₂

Unit : Mc

Month : August 1958

TABLE 12—*Concl'd.*

Ionospheric Data

75.0° E Mean Time

Latitude : 10° 2' N

Longitude : 77° 5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	8.9 _F	8.6	8.2	6.8	6.8	U10.0 _s	U11.6 _s	12.4	12.3	11.8	11.6
2	10.8	U9.8 _s	U9.8 _s	9.6	8.6	6.8	U9.6 _s	11.6	11.8	11.1	10.9	10.8
3	U9.4 _s	U9.4 _s	8.8	8.6	U9.5 _s	8.2	10.8	12.1	12.6	U12.0 _R	11.2	10.7
4	10.7	U9.6 _s	8.8	8.8	8.0	6.7	U9.6 _s	11.0	11.4	11.1	U11.0 _R	10.9
5	F	U10.0 _F	10.8	U10.8 _F	F	6.3	9.5	11.0	U12.0 _R	12.1	11.7	10.9
6	U10.7 _F	10.4 _F	F	8.0	5.3	5.3	9.1	11.2	12.1	11.8	10.9	9.8
7	F	10.6 _F	10.7	U9.7 _F	5.8	U5.1 _s	9.0	11.0	11.8	12.2	11.6	10.5
8	10.7	10.0	U10.1 _s	9.9 _F	8.0	5.4	9.1	11.0	11.1	10.7	10.5	10.2
9	U10.0 _F	U9.6 _s	U9.6 _s	9.1	6.8	4.8 _F	8.7	11.0	11.1	10.4	10.1	C
10	F	F	10.5	9.1	7.1	6.4	9.0	11.0	11.7	11.6	10.9	C
11	F	F	F	F	7.9	U6.0 _s	8.9	10.7	11.1	11.2	10.7	10.4
12	10.5	10.4	U10.2 _F	10.7	7.4	5.7	8.9	10.5	10.4	10.6	10.0	10.4
13	F	U10.5 _F	7.6	6.3	5.7	4.8	8.7	10.9	11.5	10.0	9.2	9.2
14	11.1	11.0	10.7	10.7	9.7	5.5	8.8	10.6	11.5	11.1	10.9	9.8
15	U11.6 _s	F	10.5	F	F	F	F	J11.0 _F	10.9	9.5	10.2	10.0W
16	10.8 _F	F	F	8.0	6.2	4.8 _H	8.6	10.3	11.1	11.0	R	11.1
17	F	10.2 _F	8.7	F	F	5.0 _V	9.0	10.9	11.8	11.4	10.9	10.9
18	8.8	8.5	8.3	8.5	7.5	8.1	10.1	11.5	J13.0 _R	11.9	10.8	11.4
19	U10.1 _F	U9.8 _F	F	F	U8.6 _F	5.9	9.4	11.6	12.6	12.6	11.7	11.0
20	F	U9.1 _s	9.0	8.7	8.0	6.1	9.8	11.9	12.9	12.8	11.4	11.3
21	F	U8.6 _F	F	U7.8 _F	U7.8 _F	6.4	9.3	11.0	11.7	11.3	11.4	J11.0 _R
22	11.4	FS	U8.0 _s	U7.6 _F	FS	5.8	9.3	11.5	12.3	11.8	11.9	11.8
23	FS	U10.1 _s	11.3	U10.4 _s	9.1	FS	U10.4 _s	11.8	12.3	11.5	10.8	10.9
24	F	F	F	F	F	U7.3 _F	C	C	C	C	C	C
25	U7.6 _s	U8.0 _s	U8.0 _s	8.0	7.6	7.2	10.6	12.8	13.9	J14.0 _R	12.8	12.0
26	F	FS	8.8	U8.2 _s	7.0	U5.8 _{SH}	10.2	12.5	13.5	13.8	12.8	11.6
27	11.0Z	10.2	9.1	8.6	8.0	5.6	9.7	12.0	12.4	12.1	10.3	11.0
28	9.6	9.5	9.0	9.2	8.6	8.4	11.0	13.0	13.7	13.1	12.3	11.7
29	10.7V	10.0	U9.8 _s	9.8	9.8	7.6	10.2	12.2	12.8	12.3	11.6	11.0
30	11.5	11.0	10.6	10.0	7.9	5.3	9.6	11.6	12.0	11.3	10.8	11.0
31	10.6	8.8	7.6	7.0	6.0	6.0	9.8	12.2	13.5	13.5	12.4	11.4
Mean	10.4	9.8	9.4	8.9	7.6	6.2	9.5	11.4	12.1	11.7	11.1	10.9
Median	10.7	9.9	9.1	8.8	7.8	6.0	9.5	11.4	12.0	11.7	10.9	11.0
Count	19	24	25	26	26	29	29	30	30	30	29	28

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F₂

Unit : Mc

Month : August 1958

TABLE 12--Concld.

Ionospheric Data

75.0° E Mean Time

Latitude 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11.6	11.8	11.8	11.3	11.0	11.0	11.4	U11.8s	10.5	U9.6s	10.2	10.8	1
10.5	10.5	10.6	10.8	10.8	11.0	U10.4s	F	F	U10.0F	F	C	2
10.8	U11.0R	11.4	11.8	12.3	12.4H	12.8	11.4	U11.2F	U11.6F	U11.6s	10.9	3
11.0	11.0	10.8	10.8	10.6	10.6	10.9	U9.2R	U8.6F	U8.8F	F	F	4
10.3	9.8	9.5	9.5	10.0	U10.2s	U10.3R	U9.5s	F	F	F	U10.5F	5
9.6	9.6	9.4	9.5	9.6	9.8	U9.7s	8.6	F	U8.3F	F	F	6
9.9	9.6	9.6	9.8	10.5	11.3	11.1	10.0	U9.7s	10.3	10.7	10.8	7
10.3	10.3	10.5	10.8	11.0	11.3	11.0	U9.8F	U8.8F	F	F	F	8
9.6	9.8	10.2	10.0	10.4	10.4	U9.8s	U8.8F	U8.5F	U8.6F	F	F	9
10.9	11.9	12.4	12.1	13.0	12.8H	11.6H	F	F	F	F	F	10
10.7	10.9	11.1	11.4	11.5	11.7	10.7	8.9F	F	F	F	F	11
11.1	11.9	12.5	12.7	12.9	12.9	S	10.6	F	F	10.3	F	12
9.4	9.9	9.9	10.4	10.9	11.3	11.5	10.5	U9.8s	U9.7F	10.0	U10.2F	13
9.8	9.7	10.0	10.5	10.9	11.3	U10.9R	U8.8F	F	F	F	F	14
10.0	10.1	10.0	10.5	11.1	U11.9s	11.5	U9.9Fs	U9.7F	F	F	F	15
10.0	9.8	9.6	9.6	9.5	10.2	U9.5s	F	F	F	F	U11.2F	16
10.3	9.7	9.6	10.4	10.9	11.2	11.3	U9.5s	10.4	11.0	12.4	13.0	17
11.8	12.0	12.9	J13.0R	13.0	U13.0R	11.8	11.4	11.2	11.4	11.6	11.0	18
11.2	11.2	11.4	11.6	11.6	11.5	10.4	8.4	F	U8.7F	F	F	19
11.2	10.6	10.9	10.7	10.4	10.3	9.4	U8.5F	F	F	F	F	20
11.0	11.5	11.5	10.9	10.8	10.7	10.0	U8.2F	F	F	F	F	21
11.7	11.9	11.6	10.9	10.0	9.8	U9.6s	U9.2Fs	8.9	U8.3s	U9.2s	U9.4s	22
10.8	10.9	11.0	11.0	10.9	U10.7s	U9.2Rs	F	F	F	F	F	23
C	10.5	9.7	9.3	9.6	9.8	9.3	8.4	7.7	7.7	U7.8F	U7.9s	24
11.7	11.6	11.6	11.6	U11.2s	10.8	U10.0s	U7.6F	F	F	F	F	25
11.3	11.6	11.8	11.8	11.8	J12.1s	U11.7s	U10.1s	10.5	10.6	10.9	11.5	26
11.0	10.7	C	11.4	11.6	11.3	U10.4s	U9.2s	U9.4s	10.4	11.0	U10.5s	27
11.2	11.3	11.1	B	11.1	U10.9s	10.6	F	9.2	F	11.1	11.2	28
10.7	10.7	10.6	10.6	11.1	11.5	11.6	10.9	11.8	13.1	13.5	12.6	29
10.6	10.3	10.4	10.8	11.0	11.3	10.8	9.7	U10.5F	F	F	F	30
10.5	10.7	11.5	11.7	12.0	12.8	12.3	11.0	11.4	F	U12.0F	U13.0R	31
10.7	10.7	10.8	10.9	11.1	11.2	10.7	9.6	9.9	U9.9	10.9	11.0	Mean
10.8	10.7	10.8	10.8	11.0	11.3	10.8	9.5	9.8	U9.8	11.0	10.9	Median
30	31	30	30	31	31	30	26	18	16	14	15	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F1

Unit : Mc

Month : August 1958

TABLE 13
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	I	L
2								L	L	L	L	L
3									L	L	L	LH
4									L	L	I	L
5								L	L	L	L	L
6								L	L	L	I	L
7									L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	C
10								L	L	L	L	L
11								L	L	L	I	L
12								I	L	L	I	L
13									L	L	I	L
14									L	L	L	L
15										L	L	L
16							L	L	L	L	B	B
17								L	L	L	L	L
18								L	LH	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24							C	C	C	C	C	C
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								I	L	I	LH	LH
29								L	L	L	L	L
30								L	L	L	L	LH
31								L	L	L	L	LH
Mean							
Median							
Count							

Sweep 1 Mc. to 27 Mc. in 27 seconds.

Characteristic : fo F₁

Unit : Mc

Month : August 1958

TABLE 13

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L	LH							1
L	L	L	L	L	L							2
L	L	L	L	A	L							3
L	LH	L	L	L	LH							4
LH	LH	L	L	L	L							5
L	L	L	L	L	..							6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	..							9
L	L	L	L	L	L							10
L	L	L	L	L	L							11
L	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	A							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
LH	LH	LH	L	L	L							28
LH	LH	LH	L	L	L							29
L	L	LH	L	L	..							30
LH	LH	L	L	L	..							31
..	..	..	..	..	..							Mean
..	..	..	..	..	..							Median
..	..	..	..	..	..							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F¹TABLE 13—*contd.*

Latitude : 10° 2' N

nit : Mc

Ionospheric Data

Longitude : 77° 5' E

Month : August 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	LH
6								L	L	L	L	L
7								L	L	L	L	L
8							L	L	L	L	L	L
9							L	L	L	L	L	C
10							L	L	L	L	L	C
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16							L	L	L	L	B	L
17							L	L	L	L	L	L
18							L	L	L	L	L	L
19							L	L	L	L	L	L
20							L	L	L	L	L	L
21							L	L	L	L	L	L
22								L	L	L	L	L
23								C	C	C	C	C
24							C	L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27							L	L	L	L	L	L
28							L	L	L	L	L	LH
29							L	L	L	L	L	LH
30							L	L	L	L	L	LH
31								L	L	L	LH	LH
Mean						
Median						
Count						

Sweep 1 Mc. to 25 Mc in 27 seconds.

Characteristic : fo F¹

Unit : Mc

Month : August 1958

TABLE 13—*contd.*

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
LH	L	L	L	L								4
LH	LH	L	L	L								5
L	L	L	L	L								6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	L							9
L	L	L	L	L	L							10
L	L	L	L	L								11
L	L	L	L	L								12
L	L	L	L	L								13
L	L	L	L	L								14
L	L	L	L	L	A							15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
LH	LH	L	L	L								27
L	LH	L	B	L								28
LH	LH	L	L	L								29
LH	LH	LH	L	L								30
LH	L	L	L	L								31
..	..	..	..	..								Mean
..	..	..	..	..								Median
..	..	..	..	..								Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : fo E

Unit : Mc

Month : August 1958

TABLE 14
Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							A	A	A	A	A	A
2								A	A	A	A	A
3								3'1	A	A	A	A
4							A	A	A	A	B	A
5								A	A	A	A	A
6									A	A	A	A
7								A	A	A	A	A
8								A	A	A	A	A
9							2'1	3'1	A	B	A	C
10							4'0	A	A	A	A	A
11								A	A	A	A	A
12								A	A	A	A	A
13								A	A	A	A	A
14								A	A	A	A	A
15									A	A	A	A
16								A	A	A	B	B
17							2'1	A	A	A	A	A
18								A	A	A	A	A
19							1'8	A	A	A	A	A
20								2'9	A	A	A	A
21								A	A	A	A	A
22								A	A	A	A	A
23								U3'1A	A	A	A	A
24							C	C	C	C	C	C
25								U2'9R	A	A	A	A
26								R	A	A	A	B
27								3'0	A	A	A	B
28								A	A	A	A	A
29								A	A	A	A	A
30								A	A	A	A	A
31								U3'3F	A	A	A	A
Mean								3'0	..	..	..	..
Median								3'1	..	..	..	..
Count							4	7	..	..	..	..

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : fo E
Unit : Mc
Month : August 1958

TABLE 14—*contd.*
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N
Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A	A							1
A	B	A	A	A	A							2
A	A	A	A	A	A							3
A	B	A	A	A	A							4
A	A	A	A	A	A							5
A	A	A	A	A	2'9							6
B	A	A	4.0	A	A							7
A	A	A	A	A	..							8
C	A	A	A	A	U2'9A							9
A	A	A	A	A	A							10
A	A	A	A	A	A							11
A	A	A	B	R	R							12
A	B	A	A	A	A							13
A	A	A	A	A	A							14
B	B	A	A	A	A							15
A	A	A	A	A	..							16
A	A	B	A	U3'5F	..							17
A	A	A	A	U3'7A	F							18
A	A	A	A	A	U2'9A							19
A	A	A	A	U3'5A	A							20
A	B	A	A	A	A							21
A	A	A	A	A	A							22
C	C	A	A	A	A							23
A	A	A	A	A	A							24
B	A	A	A	A	U2'8A							25
A	A	A	A	A	A							26
A	A	A	A	A	B							27
A	A	A	A	A	A							28
A	A	A	A	A	A							29
A]	A	A	A	A	A							30
..	..	..	..	..	..							31
..	..	..	..	..	..							Mean
..	..	..	..	..	..							Median
..	..	..	1	3	4							Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : foE

TABLE 14—*contd.*

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : August 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							A	A	A	A	A	A
2							A	A	A	A	A	B
3							2.7	U3.4A	A	A	A	A
4							A	A	A	A	A	A
5							2.8	A	A	A	A	A
6								A	A	A	A	A
7								A	A	A	A	A
8							2.6	A	A	A	A	A
9							2.7	A	A	A	A	C
10							A	A	A	A	A	C
11							2.6	A	A	A	A	A
12							A	A	A	B	A	A
13							2.7	A	A	A	A	A
14							R	A	R	A	A	A
15							R	A	A	A	A	A
16							A	A	A	A	B	B
17							2.6	A	A	A	A	A
18							A	A	A	A	A	A
19							2.2	A	A	A	A	A
20							2.6	3.3	A	A	A	A
21							2.5H	A	A	A	A	A
22							U2.7R	A	A	A	A	B
23							U2.7R	A	A	A	A	A
24							C	C	C	C	C	C
25								3.3	A	A	A	A
26								A	A	A	A	B
27							2.6	A	A	A	A	A
28								A	A	B	A	A
29							2.6	A	A	A	A	B
30							2.7	A	A	A	A	A
31							2.7	A	A	A	A	A
Mean	.						2.6	..	..	..	..	..
Median	.						2.6	..	..	..	..	..
Count	.						16	3	..	..	..	..

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : fo E

Unit : Mc

Month : August 1958

TABLE 14—*contd.*

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	A								1
A	A	A	A	A								2
A	A	B	A	A								3
B	A	A	A	A								4
A	A	A	A	A								5
A	A	A	A	A								6
A	A	A	A	A	A							7
A	A	4.1	3.8	A								8
A	A	A	A	U3.2A								9
A	A	A	A	A								10
A	A	A	A	A								11
A	A	A	A	A								12
A	A	B	R	R								13
A	A	A	A	A								14
A	A	A	A	A	A							15
B	A	A	A	A	A							16
A	A	A	A	3.2								17
A	B	B	A	A								18
A	A	A	A	A								19
A	A	A	A	A	A							20
A	A	3.9	A	3.0	A							21
A	B	A	A	A								22
A	A	A	B	A								23
A	A	A	A	A								24
A	A	A	A	A								25
A	A	A	A	A								26
A	A	A	A	U3.3A								27
A	A	C	B	A								28
B	A	A	A	U3.4A								29
A	A	A	A	A								30
A	A	A	A	3.2								31
..	..	..	..	3.2	..							Mean
..	..	..	..	3.2	..							Median
..	..	2	1	6	..							Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : August 1958

TABLE 15
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1		4.6	2.2				6.6	10.6	9.8	10.4	11.0	11.0
2		6.6						8.4	10.0	10.4	11.2	11.2
3	C	3.2						G	8.6	10.2	11.4	11.0
4	7.0	4.2	3.6				9.0	9.6	10.0	10.2	11.6	12.0
5	8.0							8.0	11.0	9.4	11.0	11.0
6								8.0	9.6	10.6	11.0	11.4
7	4.8		4.5				8.0	11.0	11.0	11.0	11.4	11.6
8		2.6						8.6	12.0	11.0	12.0	11.8
9	6.0						G	6.8	10.8	11.0	12.0	C
10	5.0						G	10.0	10.0	11.0	11.4	12.0
11		07.08						8.0	10.0	10.4	11.0	11.4
12								9.0	10.6	11.0	11.4	12.0
13								8.2	11.0	11.0	11.4	11.4
14								10.0	10.0	11.0	11.6	11.4
15								8.6	9.6	9.8	11.2	11.0
16							4.0	7.8	9.4	10.6	B	B
17							G	9.0	9.6	10.8	11.2	11.6
18							3.3	7.8	10.2	11.0	10.6	11.4
19	3.1	4.7	6.8	4.6			G	3.5	9.0	10.6	11.4	11.8
20								G	7.6	9.6	10.8	10.4
21								8.8	10.2	10.8	10.6	11.0
22								8.2	6.8	10.7	11.0	11.3
23								8.6	10.6	11.2	12.0	12.0
24							C	C	C	C	C	C
25								G	9.2	11.6	11.4	12.3
26								G	10.4	10.6	11.8	12.1
27	5.0							8.4	9.6	11.0	11.2	11.6
28							4.2	8.0	9.0	10.6	12.0	11.6
29								8.2	10.4	11.0	11.0	12.0
30							2.8	9.0	10.0	11.2	12.0	11.8
31								G	10.0	10.4	11.2	11.0
Mean	5.6	4.7	..	..	..	..	5.4	8.5	9.9	10.7	11.3	11.5
Median	5.0	4.6	..	..	..	..	3.3	8.2	10.0	10.8	11.4	11.5
Count	7	7	4	1	..	..	11	30	30	30	29	28

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : foEs
Unit : Mc
Month : August 1958

TABLE 15—*contd.*
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N
Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11.4	10.6	11.0	11.0	9.2	8.0	8.0	4.0	2.3				1
11.4	11.4	11.0	10.8	8.5	7.0	..						2
11.0	11.6	11.4	11.6	20.0	8.5	4.4	3.5				3.0	3
11.6	11.2	11.2	10.6	9.4	8.0	6.8	7.6					4
11.0	11.6	11.4	11.4	10.6	9.4	9.0	6.0	2.6	2.8	4.0	7.2	5
										6.4		
11.0	11.4	12.0	11.0	10.0	8.8	..						6
11.6	11.6	12.0	11.2	9.0	6.4	7.6					6.2	7
11.0	11.0	11.0	11.0	7.6	8.1	U7.0S				3.1	3.2	8
G	11.4	11.4	10.0	8.0	7.0	7.6				2.5	6.0	9
11.0	15.0	18.6	13.0	13.2	8.8	..						10
11.6	11.6	11.0	10.6	11.0	10.0	..						11
11.0	17.0	10.6	12.0	8.0	6.8	..					5.0	12
12.0	11.4	11.6	11.2	10.0	8.0	7.0						13
11.6	11.2	11.4	11.0	8.8	8.0	..						14
11.6	11.0	11.4	11.6	12.0	12.2	12.0				4.4	7.0	15
G	11.0	11.0	11.0	9.4	7.6	3.8	2.4					16
11.4	10.8	11.1	10.8	8.4	8.0				3.4			17
11.6	11.1	7.8	8.8	8.5	7.0					3.6	4.2	18
11.4	11.4	11.5	11.0	8.4	7.8					2.0		19
11.2	10.8	11.0	11.0	8.6	7.8							20
10.6	10.4	10.4	10.6	8.7	6.6							21
11.8	12.0	11.4	11.0	9.4	8.0							22
11.8	12.1	12.0	11.4	10.1	8.4							23
C	C	10.8	11.0	9.1	7.8							24
11.6	11.8	11.3	11.0	10.1	8.3							25
11.4	11.6	11.6	11.0	9.1	8.0	2.6		2.0	2.2	2.1	2.4	26
11.6	11.4	11.4	10.4	9.0	7.6							27
12.0	12.0	12.0	11.6	B	8.0							28
11.4	11.6	11.6	11.0	9.6	6.8			2.1	5.0		3.6	29
11.4	11.0	11.6	11.6	9.0	8.0					4.0		30
11.2	11.2	11.0	11.0	8.8	6.8				5.0			31
11.4	11.6	11.4	11.0	9.7	8.0	6.9	4.7	..	3.7	3.6	4.8	Mean
11.4	11.4	11.4	11.0	9.2	8.0	7.0	4.0	..	3.4	3.6	4.6	Median
29	30	31	31	30	31	11	5	4	5	9	10	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : August 1958

TABLE 15—*contd.*

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	4.4	3.0					9.0	8.6	10.0	11.2	11.2	11.2
2							7.0	9.6	10.6	11.6	11.4	11.4
3							G	6.8	9.2	11.4	11.0	11.0
4		3.0	7.0				11.0	9.0	10.0	11.2	12.0	11.4
5	4.2						7.0	10.6	10.0	10.6	11.0	11.0
6							..	8.8	10.0	11.2	11.6	11.4
7			3.8				8.8	10.8	11.4	12.0	11.0	12.0
8	2.8	4.0	2.3				6.4	10.0	11.0	11.8	11.0	11.4
9	5.0						7.0	9.8	10.8	12.0	12.0	C
10	7.4						8.0	11.0	10.4	11.6	11.3	C
11	3.4		2.4				6.8	9.0	9.6	11.4	11.6	11.0
12							8.0	9.4	10.6	11.2	11.8	11.4
13					8.7		G	9.0	10.8	11.8	11.6	11.2
14							7.8	10.4	10.8	11.6	11.0	11.6
15							7.0	9.6	10.0	11.4	11.0	12.0
16							6.8	8.4	10.6	11.8	B	10.4
17							6.4	9.4	10.1	11.6	11.4	11.2
18							u6.9s	8.8	10.2	10.6	11.3	11.4
19	2.7	u6.0s	7.7	3.6			4.0	8.6	10.6	11.6	12.0	11.1
20	6.4						G	G	9.8	10.7	10.8	10.6
21							G	10.6	10.0	10.4	11.0	10.8
22							u6.9s	7.7	9.7	10.9	11.4	11.0
23							4.2	9.2	11.2	11.2	11.7	12.0
24							G	C	C	C	C	C
25							..	G	10.1	11.8	11.7	12.1
26							..	10.2	9.6	11.5	12.1	11.7
27							7.0	9.0	10.4	11.4	11.7	11.8
28							4.0	8.6	10.0	11.4	11.6	11.6
29							G	10.0	11.0	11.4	12.0	11.6
30							3.2	9.4	11.0	11.4	11.2	11.6
31							G	8.8	10.0	11.4	11.6	11.4
Mean	4.5	..	4.6	..	..	..	6.8	9.3	10.3	11.4	11.4	11.4
Median	4.3	..	3.8	..	..	..	6.8	9.1	10.2	11.4	11.4	11.4
Count	8	4	5	1	1	..	27	30	30	30	29	28

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : August 1958

TABLE 15—*contd.*

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
10.8	11.0	11.0	10.0	9.0	8.6	8.0						1
11.6	11.4	11.6	9.0	8.6	7.0							2
11.4	11.8	10.4	11.3	13.2	4.2	4.2	2.8		2.4	3.8	C	3
11.0	11.6	11.0	8.6	8.8	U6.6s	3.0			6.0	4.6	8.6	4
11.4	11.4	11.4	10.4	10.4	10.0	8.0	4.2				4.0	5
11.5	12.0	11.0	10.4	8.8	7.0							6
11.8	12.2	11.7	10.0	7.4	6.7	5.0				6.0	4.0	7
10.6	11.0	11.4	8.0	9.0	8.0						3.2	8
12.0	11.6	12.0	8.6	8.6	8.0							9
11.6	19.4	18.6	17.0	9.8	8.0					5.0	7.0	10
											2.5	
11.6	11.4	11.0	10.0	10.8	8.0							11
11.2	12.4	9.6	10.2	9.0	6.0					4.4	U7.0s	12
11.0	11.8	B	10.0	9.6		5.4						13
11.4	11.4	11.0	9.0	8.8	6.8							14
11.0	11.6	11.8	10.0	11.4	16.0	6.0				10.0		15
11.0	11.2	11.6	10.0	8.7	U5.8s							16
10.8	11.4	11.0	10.9	8.2	7.0				3.2			17
11.3	C	9.8	8.2	8.2	S				2.8	3.1		18
11.7	10.8	10.8	9.0	7.8	S							19
11.4	11.1	11.0	9.4	8.4	6.6							20
10.2	10.8	10.8	8.8	7.7	S							21
10.6	11.3	11.2	10.6	8.6	U7.1s					2.0		22
11.6	12.1	11.5	10.6	9.1	7.8							23
C	10.7	11.0	9.8	8.2	U6.5s						U4.0s	24
11.8	11.6	11.2	10.8	8.8	U7.1s							25
11.6	11.8	11.1	10.0	8.0	U7.0s							26
11.8	11.0	C	9.4	8.4	6.4			2.1			5.6	27
12.0	11.8	11.6	B	8.4	6.6							28
11.6	11.4	11.0	9.8	8.0	6.0							29
12.0	12.0	11.2	10.0	9.0	5.4				4.2	5.0		30
									3.6	4.4	4.4	31
11.2	11.0	11.2	9.0	7.4								
11.4	11.7	11.4	10.0	8.9	7.3	5.6			3.7	4.8	5.0	Mean
11.4	11.4	11.1	10.0	8.7	7.0	5.4			3.4	4.5	4.2	Median
30	31	29	30	31	26	7	2	1	6	10	10	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : August 1958

TABLE 16

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1		1.7	1.7				2.3	3.4	3.6	4.0	4.4	4.5
2		2.2						3.2	3.7	4.2	4.4	4.6
3	C	3.2						..	3.8	4.2	4.4	4.6
4		2.2					2.4	4.0	3.6	4.1	..	4.6
5								3.0	3.8	4.1	4.2	4.5
6								3.2	3.8	4.1	4.4	4.5
7	2.1		2.1				2.6	4.2	4.1	4.1	4.3	4.5
8								3.0	3.9	4.5	4.4	4.7
9	2.0							3.1	3.8	..	4.4	C
10	2.4							3.0	3.7	4.1	4.4	4.5
11		2.2						3.0	3.5	4.1	4.3	4.6
12								3.0	3.5	3.9	4.6	4.6
13								3.0	3.6	4.0	4.3	4.5
14								3.0	3.7	4.2	4.4	4.7
15								3.1	3.6	4.1	4.4	4.6
16								3.0	3.7	4.2	..	..
17								3.2	3.7	4.0	4.4	4.7
18							2.3	3.2	3.6	4.2	4.4	4.5
19	1.9	2.3	2.8	1.8				3.0	3.6	4.0	4.3	4.6
20								..	3.8	4.4	4.5	4.6
21								3.0	3.7	4.0	4.4	4.4
22								3.1	3.7	4.0	4.5	4.7
23								3.1	3.8	4.4	4.5	4.8
24							C	C	C	C	C	C
25								..	3.7	4.2	4.5	4.8
26								..	4.1	4.5	4.6	4.9
27								3.1	3.7	4.2	4.5	4.9
28							2.8	3.3	3.8	4.2	4.6	4.8
29								3.0	3.9	4.3	4.4	5.0
30								3.4	4.0	4.2	4.5	4.8
31								..	3.8	4.2	4.6	4.8
Mean	..	2.3	..	..	..	..	2.5	3.2	3.7	4.2	4.4	4.7
Median	..	2.2	..	..	..	..	2.4	3.1	3.7	4.2	4.4	4.6
Count	4	6	3	1	..	..	5	25	30	29	28	28

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : August 1958

TABLE 16—*contd.*

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
4.4	4.5	4.3	4.0	3.8	3.0	3.8	2.8					1
4.8	..	4.4	4.0	3.7	3.0	..	..				2.2	2
4.8	4.5	4.4	4.5	A	3.2	2.4	2.2					3
4.6	..	4.4	3.9	3.6	3.0	2.4	..		1.9		2.8	4
4.7	4.5	4.4	4.0	4.0	3.7	4.4	3.4	2.2		2.2		5
4.6	4.6	4.4	4.1	3.6	3.0	..					2.5	6
..	4.7	4.4	4.1	4.0	3.3	3.4					2.0	7
4.6	4.4	4.3	4.2	3.6	3.4	2.6				2.1		8
C	4.6	4.5	4.0	3.6	3.0	2.7				1.8	2.4	9
4.6	5.4	4.3	5.5	5.0	3.9							10
4.6	4.5	4.4	4.1	4.0	3.2						3.0	11
4.6	5.5	5.0	5.2	3.8	3.3							12
4.6	4.6	4.3	..	3.7	3.0	2.6						13
4.6	4.6	4.4	3.9	3.7	3.0							14
4.6	4.4	4.2	4.2	4.3	7.2	5.0				2.0	3.0	15
..	..	4.6	4.0	3.6	3.0	2.6	1.5					16
4.7	4.7	4.4	3.9	3.6					1.9			17
4.6	4.5	..	4.2	3.7						2.6	2.6	18
4.7	4.6	4.4	4.0	3.8								19
4.8	4.7	4.4	4.1	3.6	3.0							20
4.6	4.4	4.3	3.9	3.5	3.0							21
5.0	..	4.5	4.0	3.6	3.0							22
4.8	4.6	4.4	4.0	3.7	3.0							23
C	C	4.5	4.1	3.8	3.0							24
4.6	4.6	4.4	4.2	3.7	3.0							25
4.9	4.7	4.4	4.2	3.6	3.0	2.0		1.6	1.7	1.9		26
4.8	4.6	4.4	4.0	3.8	3.0							27
5.0	4.8	4.4	4.0	..	..							28
4.8	4.8	4.5	4.2	3.6	3.0			1.8	1.8			29
4.8	4.6	4.5	4.0	3.8	3.0					2.2		30
4.6	4.6	4.4	4.0	3.6	3.0				1.9			31
4.7	4.6	4.4	4.2	3.8	3.3	3.1	..	..	1.8	2.1	2.6	Mean
4.6	4.6	4.4	4.0	3.7	3.0	2.6	..	..	1.9	2.1	2.6	Median
27	26	30	30	30	27	11	4	3	5	7	8	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : fbEs

TABLE 16—*contd.*

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : August 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1'9	2'1					2'8	3'4	4'0	4'2	4'4	4'6
2							2'7	3'4	4'0	4'2	4'6	..
3								3'4	4'0	4'4	4'6	4'6
4			2'2				3'4	3'4	4'0	4'4	4'8	4'6
5								3'9	4'0	4'2	4'4	4'6
6												
7			1'7				3'4	3'4	3'9	4'2	4'6	4'8
8	1'9	1'8					2'6	3'3	4'3	4'5	4'5	4'6
9	2'2						2'6	3'4	4'0	4'5	4'6	C
10	2'6						2'7	3'5	4'0	4'1	4'4	C
11							2'6	3'3	3'8	4'2	4'4	4'6
12							2'6	3'3	3'7	..	4'5	4'6
13								3'4	3'8	4'2	4'4	4'3
14							2'6	3'5	4'0	4'3	4'6	4'6
15							2'6	3'3	3'9	4'2	4'6	4'6
16							2'6	3'4	4'0	4'2	..	..
17							..	3'4	3'9	4'2	4'5	4'7
18							2'7	3'6	4'0	4'2	4'5	4'6
19	2'0	2'4	2'4	1'8			2'7	3'3	3'8	4'3	4'4	4'6
20	3'0								4'0	4'3	4'6	4'7
21								3'4	3'7	4'2	4'4	4'6
22							2'6	3'4	3'9	4'2	4'6	4'6
23							2'7	3'5	4'0	4'5	4'7	4'9
24							C	C	C	C	C	C
25									3'9	4'4	4'7	4'8
26								3'8	4'2	4'5	4'6	4'9
27								3'5	4'0	4'4	4'6	4'7
28							2'8	3'6	4'0	4'5	4'6	5'0
29								3'6	4'2	4'4	4'7	5'0
30								3'6	4'0	4'5	4'6	4'8
31								3'6	4'0	4'4	4'8	4'8
Mean	2'3	..	..	..	..	..	2'7	3'5	4'0	4'3	4'6	4'7
Median	2'1	..	..	..	..	..	2'7	3'4	4'0	4'3	4'6	4'6
Count	6	3	3	1	..	..	17	28	30	29	29	26

Sweep 1 Mc to 25 Mc in 27 seconds.

III

Characteristic : fbEs

Unit : Mc

Month : August 1958

TABLE 16—*contd.*

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.5	4.6	4.2	4.0	3.4	4.6	3.0						1
4.8	4.6	4.2	4.0	3.4	2.8							2
4.6	4.6	..	5.0	5.2	2.8	2.2	2.0			1.7	C	3
..	4.6	4.1	3.9	3.3	2.6						2.6	4
4.8	4.4	4.2	4.0	3.9	4.2	4.2	2.6		3.0			5
4.6	4.4	4.2	4.0	3.4	2.6							6
4.7	4.6	4.2	4.1	3.6	2.9	2.5				2.1	2.0	7
4.7	4.4	4.3	4.0	3.3	3.1						2.0	8
4.8	4.7	4.2	3.8	3.3	3.2							9
5.0	5.4	5.1	6.6	3.4	2.6					2.1	2.1	10
4.8	4.4	4.3	3.9	3.7	2.8							11
4.7	5.6	4.2	4.3	3.5	2.7						2.4	12
4.7	4.5	..	4.0	3.3	..	2.6						13
4.6	4.4	4.3	3.9	3.3	2.6							14
4.6	4.5	4.2	4.0	5.2	8.0	2.3				3.2		15
..	4.6	4.4	3.9	3.3	2.8							16
4.7	4.6	4.2	3.8	..	2.8							17
4.6	..	..	4.3	3.4	..							18
4.6	4.4	4.2	3.9	3.4	..				2.0	2.2		19
4.8	4.5	4.2	3.9	3.2	2.6							20
4.6	4.4	4.0	3.8	3.2	2.7							21
4.6	4.5	4.2	3.9	3.3	2.5							22
4.7	4.6	4.3	..	3.4	2.6					1.6		23
C	4.7	4.3	3.9	3.4	2.6						2.1	24
4.8	4.5	4.2	3.9	3.3	2.6							25
4.8	4.5	4.2	4.0	3.4	2.6			1.7				26
4.8	4.5	C	3.8	3.4	2.5						2.0	27
4.8	4.7	4.3	B	..	2.6							28
4.8	4.7	4.5	4.0	3.3	2.6				2.2			29
4.8	4.6	4.3	3.9	3.3	2.5				3.0	2.4	2.4	30
4.8	4.6	4.2	3.9	3.3	..							31
4.7	4.6	4.3	4.1	3.5	3.0	2.8	..	..	..	2.2	2.2	Mean
4.7	4.6	4.2	3.9	3.4	2.6	2.6	..	..	..	2.1	2.1	Median
28	30	27	29	29	27	6	2	1	4	7	8	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic: fmin

TABLE 17

Latitude: 10.2° N

Unit: Mc

Ionospheric Data

Longitude: 77.5° E

Month: August 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2'0	1'1	1'4	1'7	1'7	1'8	1'6	2'1	2'4	2'6	3'0	3'0
2	1'6	1'6	1'6	1'9	2'0	1'7	2'1	2'1	2'4	2'8	3'1	3'4
3	C	2'1	1'9	2'0	2'1	2'0	2'2	2'4	2'8	3'0	3'0	3'2
4	2'4	1'9	1'8	1'8	1'9	1'7	1'8	2'2	2'4	3'0	4'8	3'5
5	2'2	2'4	2'2	1'8	1'7	1'7	2'2	2'1	2'5	3'0	3'2	3'6
6	2'9	2'6	2'0	2'3	2'4	2'1	2'6	2'3	2'7	2'8	3'0	3'8
7	1'6	1'6	1'6	1'7	2'1	2'3	2'4	2'2	2'7	2'7	2'6	3'4
8	1'7	1'6	1'6	1'6	2'0	1'8	2'2	2'0	2'5	3'1	3'0	3'2
9	1'6	1'6	1'4	1'4	1'9	1'6	1'6	2'1	2'7	5'3	3'2	C
10	2'2	2'0	2'2	2'1	1'9	1'7	1'7	1'9	2'3	2'7	3'1	3'2
11	2'0	1'6	1'5	1'7	1'6	1'6	2'0	1'8	2'4	2'8	3'0	3'5
12	2'0	2'0	1'9	1'6	1'6	1'6	2'1	2'0	2'4	3'0	4'7	3'7
13	2'1	1'9	1'8	1'9	2'0	1'7	2'1	2'0	2'3	2'8	2'8	3'6
14	2'0	2'0	2'0	1'5	1'7	2'1	2'4	2'1	2'7	3'5	3'2	3'6
15	1'7	1'6	1'5	1'7	1'7	1'7	2'1	1'8	2'3	2'8	3'0	3'4
16	2'4	2'3	2'2	1'8	1'7	1'7	2'2	2'0	2'4	3'0	B	7'2
17	2'2	1'9	2'1	1'6	2'0	1'9	1'9	1'9	2'4	2'8	3'3	3'8
18	1'8	1'9	1'7	1'8	1'8	1'6	2'0	2'2	2'6	3'2	3'2	3'6
19	1'6	1'6	1'6	1'5	1'5	1'8	1'5	1'9	2'2	2'8	3'0	3'4
20	2'3	1'7	1'6	1'7	1'8	1'8	2'3	2'4	2'5	2'9	3'1	3'2
21	1'9	1'9	1'8	1'9	2'2	1'8	2'1	2'0	2'3	2'6	2'9	3'1
22	1'6	1'7	1'9	1'6	2'0	2'2	2'1	1'9	2'2	2'8	3'0	3'5
23	1'9	1'4	1'4	1'7	1'6	1'7	2'4	2'3	2'5	3'0	3'1	3'7
24	1'7	1'9	1'5	1'7	1'6	2'0	C	C	C	C	C	C
25	1'9	1'6	1'5	1'7	1'6	1'8	2'4	2'2	2'5	2'9	3'3	3'3
26	1'6	1'9	1'7	1'8	2'1	1'6	2'5	2'8	3'0	3'4	3'5	4'2
27	1'5	1'7	1'9	1'9	1'7	1'8	1'8	2'0	2'3	3'0	3'0	4'4
28	1'5	1'4	1'4	1'5	1'7	1'5	1'7	2'0	2'5	3'0	3'0	4'0
29	1'8	1'9	2'0	1'7	1'6	1'7	2'0	2'1	3'0	3'0	3'2	3'8
30	1'8	2'2	2'0	1'7	1'9	1'7	1'9	2'2	2'5	3'0	2'0	3'4
31	2'2	2'4	2'2	2'2	1'9	1'8	2'1	2'3	2'6	3'2	3'2	4'2
Mean	1'9	1'8	1'8	1'8	1'8	1'8	2'1	2'1	2'5	3'0	3'2	3'7
Median	1'9	1'9	1'8	1'7	1'8	1'7	2'1	2'1	2'5	3'0	3'1	3'5
Count	30	31	31	31	31	31	30	30	30	30	29	29

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : August 1958

TABLE 17—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
3.1	3.5	3.0	2.6	2.6	2.4	1.9	2.0	1.5	1.8	1.7	2.0	1
3.6	4.7	3.1	2.8	2.7	1.8	2.0	1.6	1.8	1.7	1.7	1.5	2
3.2	3.4	3.4	3.0	2.4	2.0	1.7	1.5	2.0	2.4	2.4	2.4	3
3.2	4.8	3.0	2.6	2.5	2.5	2.0	1.6	1.5	1.5	2.4	2.0	4
3.5	3.4	3.3	3.0	2.5	2.0	1.6	1.9	2.0	1.9	1.8	2.4	5
3.5	3.4	3.3	3.0	2.8	2.5	2.4	1.8	1.8	2.0	2.0	1.7	6
5.2	3.6	3.2	3.0	2.2	2.0	1.7	2.5	2.2	1.8	2.4	2.0	7
3.4	3.2	3.1	2.7	2.7	2.5	2.0	2.1	1.8	2.0	1.7	1.9	8
C	3.4	3.1	3.0	2.6	2.4	1.6	1.4	1.4	1.6	1.8	1.8	9
3.4	3.0	3.0	2.6	2.3	2.1	2.3	1.6	1.8	1.8	2.1	1.8	10
3.4	3.4	3.2	2.9	3.0	2.3	2.3	1.9	2.0	2.0	2.4	2.3	11
3.4	3.0	2.7	2.4	2.3	2.0	2.1	1.7	1.7	2.2	2.3	2.2	12
3.4	3.4	3.4	4.6	3.0	2.4	2.0	2.0	1.9	1.8	1.8	2.0	13
3.5	4.0	3.2	2.6	2.5	2.2	2.4	1.1	1.8	1.8	2.4	1.8	14
3.4	3.2	3.0	2.7	2.3	2.0	1.9	2.0	1.9	1.8	1.6	2.1	15
6.0	5.0	3.8	3.0	2.6	2.0	1.6	1.4	2.2	2.2	2.0	2.1	16
3.8	3.2	3.3	3.1	3.0	3.0	2.8	1.7	1.9	1.6	1.7	1.9	17
3.5	3.6	5.2	3.8	2.8	3.0	2.0	1.4	1.7	2.0	1.7	1.4	18
3.5	3.3	3.2	2.8	2.9	2.3	2.1	1.7	2.1	1.7	1.7	1.5	19
3.2	3.1	3.1	3.0	2.6	2.3	2.1	1.6	2.2	2.0	2.1	1.9	20
3.4	3.3	2.9	2.6	2.6	2.3	2.2	1.5	2.0	2.0	1.9	1.6	21
3.1	5.2	3.2	2.8	2.6	2.3	1.9	1.6	2.0	1.8	2.0	1.8	22
3.2	3.2	3.2	2.8	3.0	2.2	2.0	1.4	1.7	1.8	1.9	1.9	23
C	C	3.3	2.8	2.5	2.2	2.0	1.6	1.2	1.5	1.5	1.6	24
3.4	3.5	3.2	3.2	2.6	2.2	2.0	1.6	1.7	1.9	1.9	1.6	25
4.0	3.6	3.2	2.7	2.5	2.1	1.8	1.5	1.5	1.6	1.8	1.4	26
3.8	3.7	3.2	2.8	2.8	2.3	2.0	1.3	1.8	1.4	1.5	1.9	27
4.0	3.8	3.4	3.0	5.4	3.1	1.9	1.2	1.7	1.8	1.7	1.8	28
4.0	3.8	3.4	2.8	2.5	1.7	2.2	1.9	1.2	1.4	1.4	1.7	29
4.0	3.4	3.2	2.7	2.8	2.1	1.8	1.4	1.7	1.8	1.6	2.5	30
3.2	3.6	3.0	2.6	2.6	2.3	2.1	1.3	1.8	1.4	1.6	1.8	31
3.6	3.6	3.2	2.9	2.7	2.3	2.0	1.6	1.8	1.8	1.9	1.9	Mean
3.4	3.4	3.2	2.8	2.6	2.3	2.0	1.6	1.8	1.8	1.8	1.9	Median
29	30	31	31	31	31	31	31	31	31	31	31	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : f min

TABLE 17—contd.

Latitude : 10.2° N

Unit.: Mc

Ionospheric Data

Longitude : 77.5° E

Month : August 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1.5	1.4	1.6	1.7	1.8	1.7	2.0	2.2	2.6	2.8	3.0	3.0
2	1.5	1.5	1.7	1.8	1.7	1.8	1.6	2.2	2.5	2.6	3.2	4.8
3	2.4	2.2	2.0	1.8	2.2	2.0	2.2	2.5	3.0	2.8	3.3	3.2
4	2.1	1.9	1.6	1.7	1.8	1.7	1.8	2.3	2.7	3.4	3.8	3.6
5	2.4	2.2	2.0	1.7	1.6	2.0	2.1	2.3	2.8	3.0	3.6	3.6
6	2.6	2.4	2.4	2.2	2.3	2.5	2.8	2.4	2.7	2.8	3.0	3.6
7	1.7	1.7	1.6	1.9	2.2	2.4	2.0	2.2	2.5	2.7	3.0	3.4
8	1.9	1.8	1.4	1.8	1.8	2.2	1.7	2.3	2.7	2.8	3.1	3.4
9	1.5	1.5	1.6	1.5	1.8	1.5	1.8	2.3	2.9	3.2	3.2	C
10	2.0	2.3	2.4	2.0	1.8	1.9	1.7	2.1	2.5	2.7	3.2	C
11	1.8	1.8	1.9	1.6	1.5	1.7	1.7	2.1	2.4	2.7	3.1	3.6
12	2.0	2.5	1.9	1.6	1.6	1.7	1.7	2.1	2.7	4.6	3.8	3.6
13	2.2	2.0	1.5	2.0	1.8	1.6	1.8	2.2	2.6	2.8	3.2	3.3
14	2.0	2.0	1.7	1.6	1.7	1.8	1.8	2.5	3.0	3.4	3.6	3.5
15	1.8	1.7	1.5	1.6	1.8	1.6	1.6	2.3	2.6	3.0	3.0	3.6
16	2.3	2.3	1.9	1.6	1.7	1.7	1.8	2.1	2.6	3.0	3.3	6.1
17	2.0	2.0	1.8	1.9	1.9	1.9	1.9	2.2	2.8	3.0	3.3	3.9
18	2.0	2.0	1.8	1.7	1.6	1.8	2.0	2.4	2.9	3.2	3.4	3.5
19	1.4	1.6	1.6	1.4	1.8	1.8	1.6	2.0	2.5	3.0	3.1	3.5
20	1.6	1.8	1.6	1.5	1.8	2.0	2.2	2.8	2.8	3.0	3.3	3.1
21	1.9	1.7	1.8	2.1	2.0	2.2	1.7	2.2	2.5	2.8	2.9	3.3
22	1.7	1.9	1.7	1.8	1.8	2.1	1.7	2.1	2.6	2.7	3.4	3.8
23	1.7	1.8	1.6	1.7	1.4	1.8	2.3	2.5	2.7	3.0	3.3	3.5
24	1.9	1.6	1.6	1.5	1.7	2.4	C	C	C	C	C	C
25	1.6	1.4	1.6	1.4	1.7	2.1	2.7	2.4	2.7	3.2	3.2	3.4
26	1.7	1.5	1.6	2.2	1.9	1.9	3.0	2.8	3.4	3.5	3.7	3.9
27	1.4	2.2	1.8	1.9	1.8	2.0	1.8	2.2	2.6	3.1	3.1	3.9
28	1.4	1.5	1.6	1.8	1.6	1.7	1.8	2.2	2.6	4.5	3.7	4.0
29	2.0	1.4	1.8	1.5	1.7	1.9	1.9	2.4	2.8	3.0	3.6	4.0
30	1.7	2.1	1.9	1.8	1.9	1.9	2.2	2.4	2.8	2.8	3.2	3.4
31	2.4	2.2	2.0	2.0	1.8	2.4	2.1	2.4	2.8	3.2	3.8	3.4
Mean	1.9	1.9	1.8	1.8	1.8	1.9	2.0	2.3	2.7	3.1	3.5	3.6
Median	1.9	1.8	1.7	1.7	1.8	1.9	1.8	2.3	2.7	3.0	3.2	3.6
Count	31	31	31	31	31	31	30	30	30	30	30	28

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : f min

Unit : Mc

Month : August 1958

TABLE 17—contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
3.1	3.4	3.0	3.0	2.4	2.4	1.6	2.0	2.2	2.2	1.7	1.8	1
3.5	3.8	3.0	2.8	2.4	1.8	1.5	2.0	1.7	1.8	1.3	C	2
4.0	3.8	4.6	2.9	2.4	2.0	1.6	1.5	2.6	2.2	2.6	2.2	3
5.0	3.3	2.8	2.6	2.3	2.0	1.6	1.7	1.7	2.1	2.4	2.2	4
3.4	3.3	3.0	2.6	2.2	1.8	1.7	1.6	2.0	2.2	2.6	2.6	5
3.3	3.4	3.1	3.0	2.7	2.6	1.7	1.7	1.6	1.8	1.7	1.9	6
4.5	3.5	3.0	2.5	2.1	2.0	1.6	1.8	1.7	2.4	2.1	1.7	7
3.2	3.2	3.1	3.1	2.6	2.0	2.1	1.7	1.9	2.1	2.0	1.8	8
3.4	3.4	3.1	3.0	2.4	1.7	1.8	1.6	2.0	1.8	1.3	2.0	9
3.2	3.0	2.6	2.2	2.1	1.7	1.7	UI.68	1.9	1.9	1.9	1.3	10
3.5	3.4	3.0	3.0	2.4	2.3	2.3	1.7	1.6	2.2	2.4	2.4	11
3.2	3.0	2.6	2.4	2.0	1.7	1.5	1.8	2.0	2.1	2.4	2.2	12
3.6	3.2	6.0	3.4	2.6	3.0	1.5	1.9	1.8	1.8	1.8	2.1	13
3.5	3.7	2.9	2.6	2.3	1.9	1.8	1.7	1.8	1.6	2.1	2.0	14
3.6	3.1	3.0	2.5	2.2	2.1	2.2	1.9	1.8	2.1	1.8	2.3	15
5.2	4.0	3.4	3.0	2.6	1.8	1.7	2.0	2.0	2.2	2.2	2.2	16
3.6	3.5	3.2	3.0	2.8	2.7	1.9	1.8	1.8	2.0	2.0	1.9	17
3.5	5.5	4.6	2.8	2.6	2.6	1.7	1.5	2.0	1.7	1.9	2.0	18
3.3	3.2	3.2	2.8	2.4	2.6	1.4	1.9	2.6	2.0	2.0	2.4	19
3.1	3.2	3.0	2.8	2.3	2.0	1.6	2.1	2.0	2.0	2.1	1.7	20
3.5	3.4	2.9	2.9	2.6	1.9	1.7	2.0	1.8	2.1	1.7	1.5	21
3.1	3.8	3.0	2.7	2.4	2.1	1.4	1.7	1.7	1.7	1.2	1.7	22
3.3	3.2	3.0	4.4	2.6	2.1	1.5	1.6	1.8	1.8	1.5	1.6	23
C	3.6	3.0	2.8	2.4	2.1	1.6	1.8	1.6	1.4	2.0	1.7	24
3.5	3.2	3.1	3.0	2.3	2.1	1.6	1.4	2.0	2.0	2.0	1.6	25
3.8	3.6	3.0	2.7	2.3	1.9	1.5	1.4	1.6	1.6	1.4	1.4	26
3.9	3.2	C	2.8	2.5	1.9	1.6	1.5	1.7	1.7	1.6	1.4	27
3.9	3.6	3.2	B	3.8	2.6	1.4	1.8	1.8	1.6	1.5	1.7	28
3.9	3.6	3.4	2.7	2.4	1.7	1.5	1.7	1.8	1.4	1.7	1.7	29
3.9	3.6	3.0	3.0	2.4	2.2	1.3	1.8	1.8	1.6	1.8	1.9	30
3.6	3.2	2.8	2.8	2.4	2.6	1.6	1.4	1.9	1.5	2.0	2.2	31
3.6	3.5	3.2	2.9	2.4	2.1	1.6	1.7	1.9	1.9	1.9	1.9	Mean
3.5	3.4	3.0	2.8	2.4	2.0	1.6	1.7	1.8	1.9	1.9	1.9	Median
80	31	30	30	31	31	31	31	31	31	31	30	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

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Characteristic : F₂

TABLE 18

Latitude : 10° 2' N

Unit : Km

Ionospheric Data

Longitude : 77° 5' E

Month : August 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								..	L	L	L	L
4								..	L	L	L	L
5								..	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								..	L	L	L	L
14								..	L	L	L	L
15								..	L	L	L	L
16								L	L	L	B	B
17							L	L	L	L	L	L
18							L	L	L	L	L	L
19							L	L	L	L	L	L
20							L	L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24							C	L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Mean						
Median						
Count						

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F₂

Unit : Km

Month : August 1958

TABLE 18
Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.3° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L	L							1
L	L	L	L	L	L							2
L	L	L	L	L	L							3
L	L	L	L	L	L							4
L	L	L	L	L	L							5
L	L	L	L	L	L							6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	L							9
L	L	L	L	L	L							10
L	L	L	L	L	L							11
L	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L	L	L	L	L	L							30
L	L	L	L	L	L							31
..	..	..	..	..	..							Mean
..	..	..	..	..	..							Median
..	I	..	..	..	..							Count

Sweep in 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F₂TABLE 18 *Contd.*

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : August 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5												
6								L	L	L	L	L
7								L	L	L	L	L
8							L	L	L	L	L	L
9							L	L	L	L	L	L
10							L	L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16							L	L	L	L	B	L
17							L	L	L	L	L	L
18							L	L	L	L	L	L
19							L	L	L	L	L	L
20							L	L	L	L	L	L
21							L	L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27							L	L	L	L	L	L
28							L	L	L	L	L	L
29							L	L	L	L	L	L
30							L	L	L	L	L	L
31								L	L	L	L	L
Mean						
Median						
Count						

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F₂

Unit : Km

Month : August 1958

TABLE 18—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								1
												2
												3
												4
												5
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								6
			LH									7
			LH		L							8
	LH	LH	L									9
												10
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								11
												12
												13
					L							14
												15
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								16
												17
												18
												19
												20
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								21
	LH											22
												23
												24
												25
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								26
												27
												28
												29
												30
L	L	L	L	L								31
..	..	..	..	..	..							Mean
..	..	..	..	..	..							Median
..	..	..	..	..	..							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F

TABLE 19

Latitude : 10° 2' N

Unit : Km

Ionospheric Data

Longitude : 77° 5' E

Month : August 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	340	360	360	260	220	220	280	250	230	220	220	210
2	280	280	275	240	240	210	270	240	220	210	200	195
3	C	320	340	340	280	220	270	240	225	220	200	195H
4	260	260	260	260	230	220	280	260	220	215	U220B	220
5	310	280	275	250	220	220	260	240	225	220	215	210
6	300F	U280F	275	245	230	240	265	245	230	215	205H	200
7	350F	290F	255	230	225	240	265	A	235	220	205	205H
8	265	270	280	270	235	215	270	245	235	225	210H	210
9	U330F	300	270	255	215	215	265	245	230	B	215	C
10	U400F	U340F	250F	225	235	225	270	240	230	220	200H	200
11	395	F	270	240	230	220	270	240	225	220	210	200
12	300	290	280	255	215	215	270	245	220	210	220	210
13	310	260	220	225	220	215	260	240	220	220	200H	210H
14	280	260	255	240	220	200	260	240	225	220H	205	205
15	260	240	240	230	215	210	260	240	220	215	200H	205H
16	300	250	240	230	220	205	270	240	225	220	B	B
17	265	245	230	225	220	220	265	240	220	215	205	205
18	255	260	310	280	240	240	275	250	210H	220	220	200H
19	340	335	U310A	280	220	210	255	240	220	210	210	200H
20	260	240	240	230	225	215	265	245	225	220	210H	200H
21	265	240	235	230	225	220	260	240	225	210H	200H	210
22	240	230	240	250	240	235	275	245	230	225	215	210
23	295	260	250	240	230	230	280	245	230	220	215	220
24	280	240	265	255	240	230	C	C	C	C	C	C
25	290	260	245	245	230	220	260	245	225	220	220	215
26	280	240	235	240	235	220	280	255	240	230	210	U225A
27	260	250	255	240	225	215	270	245	230	220	220	210
28	245	260	260	255	250	245	280	250	235	220	210	210
29	255	240	260	260	270	220	270	245	235	215	210	225
30	255	240	240	240	225	210	270	245	240	215	210	210
31	260	240	235	235	220	230	275	255	235	230	205	210
Mean	290	270	265	250	230	220	270	245	225	220	210	210
Median	280	260	255	240	225	220	270	245	225	220	210	210
Count	30	30	31	31	31	31	30	29	30	29	29	28

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km

Month : August 1958

TABLE 19

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
210	205	200	220	225	240H	300	300	320	380	360	295	1
215	210	220	220	220	250	300	380	U340F	F	350F	360	2
220	200	210	U220A	A	240	280	375	U340F	U350F	300	265	3
200	200H	200	200	220	240H	290	380	460	440	400	340	4
200H	200H	200	220	U240A	260	U340A	400	475	420	410	U350F	5
215	210	200H	200	235	250	290	380	U470F	U420F	U400F	U370F	6
B	210	210	210	240	250	295	350	405	375	340	280	7
200	205	210	220	225	250	285	400	F	U380F	U425F	U350F	8
C	200	210	220	230	250	290	U400F	F	F	U460F	U430F	9
200	A	210	A	A	U270A	280	U425F	F	U460F	F	U380F	10
200	200	215	220H	240	260	295	400	460	420	370	370	11
205H	A	A	A	235	250	290H	370	380	440	380	340	12
200H	200H	200	B	240	250	290	340	400	370	365	340	13
210H	200H	215H	220H	230	250H	290	400	420	400	F	300	14
200H	205H	205H	220	260	A	A	380	400	380	400	345	15
B	B	215	215	235	250	290	440	F	F	320	325	16
200	205	210H	205	235	260	300	405	380	340	305	230	17
210	215	B	225	235	250	290	365	F	U360F	F	U340F	18
200H	200H	205	200	230	250	285	400	U445F	F	U350F	280	19
195H	200H	215	220	230	250	290	430	U375F	U410F	U370F	265	20
210	205	205	215	225	250	290	420	F	U455F	U310F	U245F	21
A	B	210H	220	230	260	300	410	F	380	380	305F	22
210	210	215	215	230	260	305	485	U470F	F	U350F	U295F	23
C	C	215	220	235	260	315	435	490	480	420	380	24
215	210	205	230	245	265	310	480	600	530	500	360	25
215	220	220	225	235	260	310	U440F	400	370	330	295	26
220	215	220	230	240	270	315	415	440	345	265	260	27
220	220	220	230	B	260	310	440	500F	350	290	280	28
220	215	210	230	240	265	300	400	360	290	265	235	29
215	205	200	210	240	265	300	420	U440F	U370F	345	300	30
200	215	220	220	230	260	305	425	420	365	320	280	31
210	205	210	220	235	255	300	400	425	395	360	315	Mean
210	205	210	220	235	250	295	400	420	380	355	305	Median
26	26	29	28	28	30	30	31	24	26	28	31	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F

TABLE 19—Contd.

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : August 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	350	380	320	230	220	275	260	240	220	220	220	210
2	275	280	260	240	220	240	250	230	215	200	200	U200B
3	340	340	340	300	240	240	255	235	230	200	200	220
4	260	260	260	240	220	240	260	230	220	220	220	210
5	280	280	260	240	220	240	250	240	220	215	210	200H
6	U285F	280F	U260F	230	230	270	250	235	220	215	200H	220
7	305F	270	240	220	215	275	255	235	230	215	205H	200
8	265	275	280	260	210	245	250	230	230H	215	215	205
9	320	280	265	230	205	240	250	230	230	210	220H	C
10	U380F	U300F	245F	225	225	250	255	225	220	210	200H	C
11	360	300	260	235	220	235	255	235	220H	215	200	200H
12	290	300	275	225	205	240	255	235	215	B	215H	200
13	290	220	230	235	215	240	250	235	215	215	200H	205H
14	270	260	240	230	210	225	250	235	220	215	210	205H
15	240	250	240	210	205	220	250	240	220	200H	220H	215H
16	260	245	235	220	210	230	250	230	230	215	B	B
17	245	240	230	220	220	235	245	230	220	215	200	200
18	255	280	305	250	240	275	260	240	230	215	210	200H
19	335	325	U295A	240	220	220	245	230	220	205	205	205H
20	280F	230	230	225	220	230	250	235	225	205H	200H	200H
21	240	220	230	230	230	230	250	230	220	210	210	200H
22	230	230	245	240	230	260	260	240	230	220	210	215
23	275	265	245	235	225	240	260	240	230	220	210	220
24	280	250	270	240	220	240	C	C	C	C	C	C
25	260	260	250	240	230	240	260	240	230	220	220	215
26	250	225	230	240	220	250	260	245	220	225	215	220
27	245	250	240	230	220	235	255	235	225	220	200	210
28	255	260	260	245	250	260	260	240	220	220	215	210
29	240	240	260	265	240	230	255	235	230	210	215	220
30	245	240	240	235	215	230	260	240	220	230	220	210
31	245	240	230	225	230	250	260	240	230	220	215	210
Mean	280	265	255	235	220	245	255	235	225	215	210	210
Median	270	260	250	235	220	240	255	235	220	215	210	210
Count	31	31	31	31	31	31	30	30	30	29	29	27

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km

Month : August 1958

TABLE 19—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
205	210	210	220	210	A	300	300	360	400	310	260	1
215	220	220	220	240	270	320	F	F	U360F	360	C	2
205	220	U220B	A	A	260	320	U360F	U360F	U315F	290	260	3
200H	200	200	220	240	260	320	420	500	420	370	320	4
200H	200H	200	225	U240A	310	350	460	440	420	400F	310F	5
210H	200	205	225	230H	260	325	430F	480	F	U410F	350F	6
215H	210	210	230	245	260	310	395	395	360	305	275	7
210	200	200	225	240	265	320	U440F	U400F	U440F	U405F	U360F	8
200	225	215	215	235	275	325F	F	F	U430F	U430F	U410F	9
A	A	A	A	245	265	335	F	F	U460F	F	380	10
210	200H	220H	230	250	275	340	440	480	380	370	325	11
215H	A	215	230	245	270H	315	380	380	F	360	320	12
200H	200H	B	225	240	270	315	365	390	380	360	320	13
200H	200H	210H	220	240H	260	320	F	340	300	F	280	14
205H	205H	215	235	A	A	320	420	400	F	375	325	15
B	215	210	220	240	275	330	F	U425F	F	315	300	16
200	200H	210	205	250	270	325	425	340	300	285	250	17
210H	B	U235B	240	245	270	315	380	F	U365F	345	330	18
200H	200H	200	220	240	270	325	U410F	U520F	U295F	U370F	275	19
200H	205	215	225	235	260	340	U460F	365	U390F	U340F	285	20
210	205	210	220	230	265	335	400	U400F	F	280	260	21
215	210H	220H	225	245	280	345	460	U400F	380	340F	305	22
210	215	220	235	250	280	360	U460F	U495F	U460F	290	U300F	23
C	220	220	225	250	280	370	480	460	450	410	340	24
215	200	215	235	250	280	365	535	580	530	U400F	310	25
215	220	220	215	250	280	370	U470F	U370F	335	315	280	26
215	220	C	230	255	290	365	430	400	300	260	240	27
220	210	210	B	260	280	375	500F	400F	310	280	270	28
205	210	230	235	250	275	345	390	320	280	260	255	29
210	205	210	235	255	280	360	490F	U390F	U370F	315	280	30
215	220	220	230	240	275	360	440	395	340	300	260	31
210	210	215	225	245	275	335	430	415	375	340	300	Mean
210	210	215	225	245	270	330	430	400	375	340	300	Median
28	28	28	28	29	29	31	26	27	26	29	30	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

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Characteristic: h'E

TABLE 20
Ionospheric Data

Latitude : 10.2° N

Longitude : 77.5° E

Unit : Km.

Month : August 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							A	A	A	A	A	A
2							..	110	A	A	A	A
3							..	110	110	A	A	A
4							A	A	A	A	B	A
5							..	110	A	A	A	A
6							..	110	105	A	A	B
7							A	A	A	A
8							..	105	105	105	105	A
9							125	110	110	B	A	C
10							130	A	A	A	A	A
11								105	105	A	A	A
12								105	105	A	B	A
13								110	105	A	A	A
14								105	110	A	105	A
15								105	105	A	A	A
16							..	A	A	115	B	B
17							175	A	A	A	A	B
18							..	115	A	A	A	A
19							105	105	A	A	A	A
20							..	115	110	A	A	A
21								A	A	A	A	A
22								105	105	100	A	B
23								110	105	A	A	B
24							C	C	C	C	C	C
25								120	115	A	A	A
26								110	110	A	A	B
27								110	110	115	105	B
28								110	110	110	A	B
29								110	A	110	A	B
30								120	110	110	110	A
31								120	110	110	A	B
Mean							..	110	110	110	..	..
Median							..	110	110	110	..	..
Count							4	23	18	8	4	..

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : August 1958

TABLE 20

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	110	A							1
A	B	110	110	110	A							2
A	A	A	A	A	A							3
A	B	A	A	110	110							4
A	A	A	A	A	A							5
A	A	A	A	110	115							6
B	A	A	110	A	A							7
A	105	A	A	A	..							8
A	A	A	A	110	115							9
			A	A	A							10
A	A	A	105	A	110							11
A	A	A	A	A	105							12
A	A	A	B	120	115							13
A	B	A	A	A	A							14
			A	A	A							15
B	B	B	A	105	A							16
B	A	A	A	120	..							17
A	A	B	B	115	..							18
A	A	A	A	115	120							19
			A	115	120							20
A	A	A	105	A	A							21
A	B	A	A	A	A							22
A	A	A	A	105	A							23
C	C	A	A	110	105							24
A	A	A	A	A	A							25
B	B	A	A	A	115							26
A	110	115	110	110	110							27
B	A	110	110	B	..							28
B	115	110	110	110	..							29
B	110	110	110	110	..							30
110	A	A	110	110	120							31
..	..	110	110	110	115							Mean
..	..	110	110	110	115							Median
I	4	5	9	17	12							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : August 1958

TABLE 20—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							A	A	A	A	A	A
2							A	110	A	A	A	B
3							120	110	110	A	A	A
4							A	A	A	A	B	A
5							110	110	110	A	A	A
6								110	A	A	A	B
7								A	A	A	A	A
8							105	105	105	105	A	A
9							110	110	105	A	A	C
10							A	A	105	A	A	C
11							105	105	A	A	A	A
12							105	105	105	B	A	A
13							110	105	105	105	A	A
14							110	105	105	A	A	A
15							110	A	A	A	A	A
16							110	A	A	A	B	B
17							120	A	A	A	A	B
18							120	105	A	A	A	A
19							105	A	A	A	A	A
20							120	115	A	A	A	A
21							100H	A	A	A	A	A
22							105	105	100	100	B	B
23							120	110	A	A	A	A
24							C	C	C	C	C	C
25								115	110	A	A	A
26								110	A	A	A	B
27							120	110	110	110	A	A
28							...	110	110	B	B	B
29							120	110	A	110	A	B
30							120	110	110	110	A	A
31							120	110	115	A	A	A
Mean							115	110	110	105	..	..
Median							110	110	110	110	..	..
Count							21	21	14	6	..	..

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'E
Unit : Km
Month : August 1958

TABLE 20—Contd.
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N
Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	110	110								1
A	B	110	110	110								2
B	B	A	A	A								3
B	110	A	A	110								4
A	A	A	A	A								5
A	A	A	110	115								6
B	A	105	A	A	A							7
A	A	105	115	A								8
A	A	A	110	115								9
A	A	105	A	A								10
A	A	105	110	A								11
105	A	A	A	A								12
A	105	B	115	115								13
A	B	105	A	A								14
A	A	A	A	A	A							15
B	B	A	A	A	A							16
A	A	A	A	120								17
A	B	B	A	120								18
A	A	A	110	120								19
A	A	A	A	115	120							20
A	A	110	105	120	A							21
A	B	A	A	A								22
A	A	A	B	110								23
C	B	A	A	105								24
A	A	A	A	A								25
B	B	A	A	110								26
A	110	C	110	110								27
115	115	115	B	..								28
B	A	110	110	115								29
B	A	110	110	115								30
110	110	A	110	120								31
..	110	110	110	115	..							Mean
..	110	110	110	115	..							Median
3	5	10	13	18	1							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'Es

TABLE 21

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : August 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1		110	105				105	100	100	100	100	100
2		100					..	100	100	100	100	100
3	C	120					..	G	100	100	100	100
4	105	110	110				105	105	100	100	100	100
5	110	..						100	100	100	100	100
6	..							100	100	100	100	100
7	110		105				105	100	100	100	100	100
8	..	110						100	100	100	100	100
9	110						G	100	100	100	100	C
10	120						G	100	100	100	100	100
11		105						100	100	100	100	100
12								100	100	100	100	100
13								100	100	100	100	100
14								100	100	100	100	100
15								100	100	100	100	100
16							110	100	100	100	B	B
17							G	100	100	100	100	100
18							135	100	100	100	100	100
19	115	110	105	105			G	110	100	100	100	100
20							..	G	100	100	100	100
21								100	100	100	100	100
22								100	100	100	100	100
23								100	100	100	100	100
24							C	C	C	C	C	C
25								G	100	100	100	100
26	..							G	100	100	100	100
27	130							100	100	100	100	100
28							120	100	100	100	100	100
29							..	100	100	100	100	100
30							135	100	100	100	100	100
31							..	G	100	100	100	100
Mean	115	110	..	..	..	..	115	100	100	100	100	100
Median	110	110	..	..	..	..	110	100	100	100	100	100
Count	7	7	4	1	..	..	7	25	30	30	29	28

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : August 1958

TABLE 21

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100	100	100	100	140				1
100	100	100	100	100	100	..	..				120	2
100	100	100	100	100	100	100	100				..	3
100	100	100	100	100	100	100	100		120	120	120	4
100	100	100	100	100	100	100	100	100		110		5
100	100	100	100	100	105	..					110	6
100	100	100	100	100	100	100	100				110	7
100	100	100	100	100	100	100	100			125	..	8
C	100	100	100	100	100	100	100			120	115	9
100	100	100	100	100	100	..						10
100	100	100	100	100	100	..					120	11
100	100	100	100	100	100	..						12
100	100	100	100	100	100	100	100					13
100	100	100	100	100	100	..						14
100	100	100	100	100	100	100				120	110	15
G	100	100	100	100	100	100	100					16
100	100	100	100	100	100				120			17
100	100	100	100	100	100					115	115	18
100	100	100	100	105	105					125		19
100	100	100	100	100	105							20
100	100	100	100	100	100							21
100	100	100	100	100	100							22
100	100	100	100	100	105							23
C	C	100	100	100	100							24
100	100	100	100	100	100							25
100	100	100	100	100	100	140		130	125	120	120	26
100	100	100	100	100	100			..			..	27
100	100	100	100	B1	105			..			..	28
100	100	100	100	100	100			120	120		125	29
100	100	100	100	100	115					120	..	30
100	100	100	100	100	100				120		..	31
100	100	100	100	100	100	105	100		120	120	115	Mean
100	100	100	100	100	100	100	100		120	120	120	Median
28	30	31	31	30	31	11	5	4	5	9	10	Count

Sweep 1/2 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : August 1958

TABLE 21—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	120	110					100	100	100	100	100	100
2							100	100	100	100	100	100
3							G	100	100	100	100	100
4		110	110				105	100	100	100	100	100
5	140						100	100	100	100	100	100
6								100	100	100	100	100
7			105				100	100	100	100	100	100
8	110	115	110				100	100	100	100	100	C
9	110						110	100	100	100	100	C
10	115						100	100	100	100	100	
11	120		105				100	100	100	100	100	100
12					120		100	100	100	100	100	100
13							G	100	100	100	100	100
14							100	100	100	100	100	100
15							100	100	100	100	100	100
16							105	100	100	100	B	100
17							100	100	100	100	100	100
18							105	100	100	100	100	100
19	110	110	105	105			105	100	100	100	100	100
20	110						G	G	100	100	100	100
21							G	100	100	100	100	100
22							100	100	100	100	100	100
23							100	100	100	100	100	100
24							C	C	C	C	C	C
25								G	100	100	100	100
26								100	100	100	100	100
27							100	100	100	100	100	100
28							120	100	100	100	100	100
29							G	100	100	100	100	100
30							125	100	100	100	100	100
31							G	100	100	100	100	100
Mean	115	..	105	..	..	..	105	100	100	100	100	100
Median	110	..	105	..	..	..	100	100	100	100	100	100
Count	8	4	5	1	1	..	21	28	30	30	29	28

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : August 1958

TABLE 21—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2°

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	100	100	100						1
100	100	100	100	100	100				120	120	C	2
100	100	100	100	100	95	100	100				105	3
100	100	100	100	100	105	120			110	120	110	4
100	100	100	100	100	100	100	100					5
100	100	100	100	105	110					115	115	6
100	100	100	100	100	100	100					110	7
100	100	100	100	100	100							8
100	100	100	100	100	100					115	115	9
100	100	100	100	100	100						135	10
100	100	100	100	100	100					120	115	11
100	100	100	100	100	100							12
100	100	B	100	100	100	100						13
100	100	100	100	100	100							14
100	100	100	100	100	100	100				105		15
100	100	100	100	100	100							16
100	100	100	100	100	100				125			17
100	G	100	100	100	100				125	120		18
100	100	100	100	105	110							19
100	100	100	100	105	110							20
100	100	100	100	100	100							21
100	100	100	100	100	110					120		22
100	100	100	100	100	115						105	23
C	100	100	100	100	105							24
100	100	100	100	100	100							25
100	100	100	100	100	115			130			110	26
100	100	C	100	100	120							27
100	100	100	B	100	110							28
100	100	100	100	100	100				120	125		29
100	100	100	100	100	120				120	120	120	30
100	100	100	100	100								31
100	100	100	100	100	105	105	..	..	120	120	115	Mean
100	100	100	100	100	100	100	..	..	120	120	110	Median
30	30	29	30	31	29	7	2	1	6	10	10	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : (M₃₀₀₀)F₂

TABLE 22

Latitude : 10.2° N

Unit :

Ionospheric Data

Longitude : 77.5° E

Month : August 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	U2'35F	F	2.40F	2'70	3'10	3'05	U2'80S	2'65	U2'45S	2'25	2'20	2'15
2	2'75	2'90	U2.85S	U3'10S	U3'10S	3'30	3'00	2'70	U2.45S	2'25	2'20	2'10
3	C	U2'60S	U2.55S	2'55	U2'80S	U3'20S	U3'05S	U2'85S	2'65	2'30	2'10	2'10
4	2'90	3'00	U3.00S	3'05	3'15	U3'35S	3'00	2'75	2'40	2'20	2'25	U2'15R
5	F	F	2.85	U3'05S	U3'15S	3'35	3'10	3'00	2'60	J2'30R	2'25	2'15
6	2'80F	U2'80F	2.95	U3'15F	3.25	3'20	2'90	2'85	2'65	2'30	2'10	2'10
7	F	F	2.95F	3'00	3.40	3'30	3'00	2'90	2'60	2'35	2'15	2'05
8	2'75	2'85	2.75	2'80F	3.20	3'35	U2'90S	2'75	2'40	2'20	2'15	2'10
9	F	U2'70F	U2.80S	U3'10F	3.25	F	3'5	2'80	2'45	2'20	2'10	C
10	F	F	F	3'15F	3.15	3'10	2'90	2'70	2'50	2'30	2'10	2'10
11	F	F	F	F	3.00F	3'20	2'80	2'70	2'40	2'25	2'20	2'15
12	U2'55F	2'65	2.70	2'75	3.25	3'25	U2'90S	2'60	2'50	2'30	2'25	2'20
13	F	F	F	3'20	2.25	3'40	2'95	2'75	2'45	2'20	2'25	2'20
14	2'70F	2'90	2.90	2'95	3.20	3'40	U3'00S	2'70	2'50	2'20	2'20	2'15
15	F	U3'10F	2.90	3'10	F	F	F	U2'85F	2'40	2'30	2'30	2'15
16	F	3'00	F	F	3.20F	3'50	2'85	2'70	2'45	2'25	B	2'20
17	2'95	F	J3.05S	F	F	F	U3'00S	2'75	2'45	2'25	2'15	2'15
18	3'10	2'75	2.60	2'50	2.90	2'95	2'75	2'55	2'40	2'10	2'10	2'35
19	2'45F	U2'55F	F	F	U3'10F	3'40	3'20	3'05	2'70	2'30	2'15	2'15
20	J2'75F	F	2.95	3'05	3.10	3'20H	3'05	2'95	2'75	2'40	2'15	2'15
21	F	U3'10F	3.05F	F	3.10F	J3'20F	3'05	2'90	2'50	2'25	2'20	2'15
22	U2'80F	U3'00S	F	F	3.10	U3'30S	2'85	2'75	2'50	2'30	2'20	2'20
23	U2'50S	FS	U2.75S	2'85	3.10	FS	FS	2'70	2'40	2'25	2'15	2'10
24	F	F	F	F	F	U3'10F	C	C	C	C	C	C
25	U2'25S	2'65	U2.70S	U2'85S	2.95	3'10	2'95	2'80	2'60	2'35	2'05	2'05
26	F	U2'85F	2'80	2'85	U3.00S	3'30	2'85	2'80	2'60	2'30	2'05	2'05
27	2'60	2'75	2'90	2'90	3.00	3'30	2'90	2'75	2'35	2'15	2'00	2'10
28	FS	2'70	2'80	2'75	2'70	2'90	2'80	2'60	2'50	2'20	2'10	2'05
29	2'80	2'85	U2'80S	2'80	2.80	3'25	3'00	2'70	2'35	2'15	2'10	2'10
30	2'80	2'90	2'85	2'90	3.15	3'30	2'85	2'80	2'40	2'10	2'20	2'20
31	F	2'90	3'00	3'05	3'15	3'00	2'75	2'80	2'50	2'35	2'10	2'05
Mean	2'70	2'85	2'85	2'90	3'10	3'25	2'95	2'75	2'50	2'25	2'15	2'15
Median	2'75	2'85	2'85	2'90	3'10	3'25	2'90	2'75	2'50	2'25	2'15	2'15
Count	17	21	24	24	28	27	28	30	30	30	29	29

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : (M3000)F2

Unit :

Month : August 1958

TABLE 22

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
2'05	2'05	2'05	2'05	2'05	2'00	2'20	U2'45s	U2'45s	U2'25s	U2'35s	2'60	1
2'05	2'05	2'00	2'00	2'05	2'10	2'10	U2'05s	U2'05F	F	U2'35F	F	2
2'05	2'10	2'10	2'10	A	2'30	2'40H	U2'40s	U2'30R	U2'50F	U2'65s	U2'80s	3
2'05	2'10	2'10	2'00	2'10	2'15	2'15	2'05	U2'00F	U2'05F	F	F	4
2'05	2'00	2'05	2'00	2'05	2'20	J2'25R	2'20	U2'10F	F	F	F	5
2'10	2'00	2'10	2'00	2'10	2'20	U2'25s	2'10	U2'05F	F	U2'25F	U2'40F	6
2'05	2'05	2'05	2'05	2'10	2'25	2'35	2'30	2'25	2'35	2'50	2'75	7
2'05	2'05	2'05	2'05	2'10	2'20	2'25	2'15	F	F	F	F	8
C	2'05	2'00	2'05	2'10	2'10	2'15	U2'05F	U2'00F	F	F	F	9
2'10	2'20	2'30	2'30	2'30	2'35	2'30H	2'05H	F	F	F	F	10
2'15	2'10	2'15	2'15	2'15	2'15	U2'05R	U1'90s	U1'95F	F	U2'10F	F	11
2'25	2'25	2'30	2'30	2'35	2'30	U2'15s	U2'05s	F	F	F	2'50	12
2'25	2'15	2'05	2'10	2'20	2'25	2'25	2'15	U2'20s	2'20	2'30	2'40	13
2'10	2'10	2'10	2'10	2'15	2'20	2'20	2'05	F	F	F	F	14
2'20	2'10	2'10	2'10	2'15	2'30	U2'40s	2'15	F	F	F	F	15
1'95	2'00	2'05	2'00	2'10	2'15	2'20	2'00	F	F	F	U2'70F	16
2'05	2'10	2'10	2'15	2'20	2'25	2'25	2'05	U2'15s	2'30	2'45	3'15	17
2'20	2'15	2'20	2'30	2'25	2'25	U2'30R	U2'15s	2'15	2'25	2'35	U2'40F	18
2'15	2'10	2'10	2'10	2'10	2'10	2'15	2'05	U2'05F	F	U2'40F	F	19
2'15	2'05	2'00	2'00	2'05	2'15	J2'15s	2'00F	F	F	F	U2'65F	20
2'10	2'10	2'10	2'10	2'05	2'10	2'10	2'00	F	F	F	F	21
2'15	2'15	2'05	1'95	1'95	2'00	2'10	U2'10s	U2'05s	2'10	2'15	U2'35s	22
2'10	2'05	2'00	2'05	2'05	2'00	S	1'95	F	F	F	F	23
C	C	1'95	1'90	2'00	2'05	U2'15s	2'00	1'95	U1'95F	2'05	U2'20F	24
2'00	1'95	2'00	2'00	2'00	2'00	2'00	1'90	U1'75F	F	F	F	25
2'00	1'95	2'00	2'10	U2'10s	U2'15s	2'05	2'00	2'05	2'00	2'15	S	26
2'05	E1'90W	2'00	2'05	2'05	2'00	U2'00s	E1'90WS	U1'90W	U2'10s	2'30	FS	27
2'00	2'00	1'95	2'00	2'05	2'10	2'05	E1'90W	F	F	S	U2'65s	28
2'05	2'00	2'00	2'00	2'05	2'10	2'20	2'10	2'20	2'45	2'65	2'80	29
2'05	2'00	1'95	2'00	2'05	2'10	2'10	2'00	U1'95F	F	F	F	30
2'05	2'05	2'05	2'10	2'20	2'20	2'20	2'00	2'05	2'25F	F	U2'60F	31
2'10	2'05	2'05	2'05	2'10	2'15	2'20	2'05	U2'10	2'20	2'35	U2'60	Mean
2'05	2'05	2'05	2'05	2'10	2'15	2'20	2'05	U2'05	2'25	2'35	U2'60	Median
29	30	31	31	30	31	30	31	21	13	15	15	Count

Sweep 1 Mc. to 25 Mc. in 27 Seconds.

Characteristic : (M3000)F₂

TABLE 22—Contd.

Latitude : 10.2° N

Unit :

Ionospheric Data

Longitude : 77.5° E

Month : August 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	2'40F	2'50	2'85	3'05	2'95	U2'70S	U2'55S	2'35	2'15	2'20	2'10
2	2'80	U2'85S	U2'95S	3'05	3'25	2'90	U2'85S	2'60	2'25	2'20	2'10	2'05
3	U2'55S	U2'60S	2'50	2'60	U3'00S	3'15	3'00	2'75	2'45	U2'10R	2'10	2'00
4	2'95	U3'00S	3'00	3'05	3'20	3'10	U2'85S	2'50	2'30	2'30	U2'20R	2'10
5	F	U2'85F	2'95	U3'20F	F	3'35	3'05	2'75	U2'45R	2'20	2'15	2'10
6	U2'85F	2'80F	F	3'25	3'25	2'80	2'95	2'75	2'45	2'10	2'10	2'10
7	F	2'90F	3'00	U3'25F	3'30	2'80	2'95	2'80	2'50	2'20	2'10	2'05
8	2'80	2'75	U2'75S	2'90F	3'30	2'90	2'90	2'55	2'25	2'20	2'20	2'10
9	U2'65F	U2'75S	U2'90S	3'15	3'40	3'15F	2'85	2'65	2'25	2'20	2'10	C
10	F	F	3'05	3'20	3'20	2'90	2'85	2'60	2'35	2'20	2'10	C
11	F	F	F	F	3'25	U3'05S	2'70	2'55	2'30	2'20	2'10	2'20
12	2'65	2'55	2'70	3'00	3'30	3'00	2'70	2'50	2'35	2'25	2'20	2'20
13	F	U3'15F	3'10	3'30	3'35	2'75	2'95	2'65	2'25	2'25	2'20	2'15
14	2'80	2'90	2'90	3'05	3'35	3'15	2'90	2'60	2'40	2'15	2'20	2'15
15	U3'05S	F	3'00	F	F	F	F	U2'60F	2'20	2'35	2'25	2'15
16	2'85F	F	F	3'10	3'35	2'60H	2'85	2'60	2'35	2'20	R	2'05
17	F	3'05F	3'00	F	F	2'65V	2'95	2'60	2'25	2'20	2'15	2'10
18	3'00	2'65	2'55	2'75	2'90	2'85	2'65	2'55	J2'35R	2'10	2'20	2'30
19	U2'45F	U2'60F	F	F	U3'15F	3'20	3'15	2'90	2'55	2'10	2'15	2'10
20	F	U3'00S	2'95	3'05	3'30	3'10	3'10	2'90	2'60	2'15	2'10	2'15
21	F	U3'05F	F	U3'15F	U3'10F	3'05	3'05	2'70	2'30	2'20	2'25	J2'15R
22	2'95	FS	U3'10S	U3'10F	FS	3'00	2'80	2'65	2'45	2'20	2'20	2'10
23	FS	U2'70S	2'65	U2'95S	3'10	FS	U2'85S	2'60	2'20	2'10	2'20	2'05
24	F	F	F	F	F	U2'90F	C	C	C	C	C	C
25	U2'40S	U2'65S	U2'70S	2'90	3'05	3'00	2'90	2'75	2'50	2'20	2'05	2'05
26	F	FS	2'75	U2'95S	3'20	U2'75S	2'90	2'75	2'45	2'20	2'05	2'00
27	2'70	2'90	2'80	3'00	3'10	3'05	2'75	2'60	2'25	2'15	2'10	2'15
28	2'75	2'70	2'80	2'75	2'80	2'95	2'70	2'55	2'30	2'15	2'15	2'05
29	2'80V	2'90	U2'80S	2'70	3'00	3'15	2'90	2'60	2'25	2'20	2'05	2'05
30	2'85	2'90	2'85	2'90	3'30	2'75	2'90	2'55	2'20	2'25	2'15	2'05
31	2'80	2'90	2'95	3'05	3'15	2'80	2'90	2'70	2'40	2'25	2'05	E2'00W
Mean	2'75	2'80	2'85	3'00	3'20	2'95	2'85	2'65	2'35	2'20	2'15	2'10
Median	2'80	2'85	2'90	3'05	3'20	2'95	2'90	2'60	2'35	2'20	2'15	2'10
Count	19	24	25	26	26	29	29	30	30	30	29	28

Sweep 1 Mc. to 25 Mc. in 27 Seconds.

Characteristic : (M₃₀₀₀)F₂

Unit :

Month : August 1958

TABLE 22—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2'05	2'05	2'05	2'00	2'00	2'10	2'30	U2'50S	2'30	U2'30S	2'55	2'70	1
2'00	2'00	2'00	2'05	2'10	2'15	U2'10S	F	F	U2'25F	F	C	2
2'05	U2'10R	2'10	2'15	2'30	2'40H	2'40	2'25	U2'35F	U2'60FS	U2'80S	2'90	3
2'10	2'10	2'05	2'05	2'10	2'15	2'20	U2'10R	U2'05F	U2'10F	F	F	4
2'05	2'00	2'00	2'05	2'15	U2'20S	U2'25R	U2'10S	F	F	F	U2'60F	5
2'05	2'10	2'10	2'05	2'10	2'20	U2'20S	2'05	F	U2'15F	F	F	6
2'00	2'00	2'05	2'05	2'15	2'30	2'35	2'20	U2'25S	2'40	2'65	2'75	7
2'05	2'05	2'05	2'10	2'15	2'20	2'25	U2'05F	F	F	F	F	8
2'05	2'00	2'05	2'05	2'10	2'15	U2'05S	2'00F	U2'00F	U2'15F	F	F	9
2'15	2'30	2'30	2'30	2'30	2'35H	2'15H	F	F	F	F	F	10
2'10	2'10	2'15	2'15	2'15	2'10	1'95	1'90F	F	F	F	F	11
2'25	2'30	2'30	2'35	2'30	2'25	S	2'00	F	F	2'35	F	12
2'20	2'10	2'00	2'10	2'20	2'25	2'20	2'10	2'15	2'20	2'35	2'50F	13
2'10	2'10	2'10	2'15	2'15	2'15	2'15	1'95	2'10	F	F	F	14
2'10	2'10	2'05	2'10	2'20	U2'30S	2'35	U2'10FS	U2'10F	F	F	F	15
2'05	2'05	2'05	2'05	2'10	2'20	U2'15S	F	F	F	F	2'65	16
2'15	2'05	2'10	2'20	2'20	2'25	2'20	U2'05S	2'20	2'45	2'65	3'15	17
2'20	2'15	2'25	J2'30R	2'30	U2'25R	2'15	2'10	2'20	2'30	2'40	2'50	18
2'10	2'10	2'10	2'10	2'15	2'15	2'10	1'95	F	U2'35F	F	F	19
2'15	2'05	2'00	2'00	2'10	2'10	2'05	U1'95F	F	F	F	F	20
2'10	2'15	2'10	2'05	2'05	2'10	2'15	U2'05F	F	F	F	F	21
2'20	2'15	2'00	1'95	2'00	2'10	U2'15S	U2'10S	2'15	U2'10S	U2'20S	U2'50S	22
2'05	2'05	2'00	2'00	2'05	1'95	U1'95RS	F	F	F	F	F	23
C	1'95	1'90	2'00	2'00	2'10	U2'05S	1'90	1'95	2'00	U2'10F	U2'40S	24
2'00	1'95	2'00	2'00	2'05	2'05	U2'00S	U1'80F	F	F	F	F	25
1'95	2'00	2'05	2'05	2'10	2'05	U2'05S	U2'00S	2'00	2'10	2'30	2'50	26
1'95	U2'00W	C	2'05	2'05	2'00	U1'90S	U1'90S	U1'95S	2'20	2'50	U2'70S	27
2'00	1'95	1'95	B	2'05	U2'10S	1'95	F	2'00	F	2'45	2'70	28
2'05	2'00	2'00	2'00	2'10	2'20	2'15	2'15	2'35	2'55	2'70	2'80	29
2'05	1'95	1'95	2'00	2'05	2'10	2'05	1'95	U2'10F	F	F	F	30
2'05	2'00	2'05	2'10	2'20	2'20	2'15	2'05	2'15	F	U2'55F	U2'85R	31
2'10	2'05	2'05	2'10	2'15	2'15	2'15	2'05	2'15	2'25	2'45	2'70	Mean
2'05	2'05	2'05	2'05	2'10	2'15	2'15	2'05	2'10	2'20	2'50	2'70	Median
30	31	30	30	31	31	30	26	18	16	14	15	Count

Sweep 1 Mc. to 25 Mc. in 27 Seconds.

Characteristic : foF₂

TABLE 23

Latitude : 10.2° N

Unit : Mc.

Ionospheric Data

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	12'6	10'7	U10'3F	U9'1F	U7'4F	5'0	7'6	11'0	12'6	12'8	11'7	11'2
2	F	F	F	F	6'5	5'7F	8'2	11'3	12'4	13'3	12'6	12'2
3	F	U13'0F	U10'4F	U9'1F	F	F	U8'4F	11'0	12'6	12'9	11'4	10'8
4	11'7	9'9	U10'1S	7'9	U7'1S	5'8	8'4	11'3	12'9	13'6	U13'9R	14'2
5	U13'8F	F	U11'0F	F	F	F	7'2F	10'7	11'4	12'0	13'0	13'2
6	10'4	8'8	8'4	8'8	7'9	6'3	8'1	11'7	13'6	15'0	15'9	15'9
7	F	F	9'4F	F	C	8'3F	8'4	11'6	12'8	13'0	11'8	11'6
8	F	F	F	F	9'6F	8'6	9'7	11'6	13'3	13'9	U13'4R	12'5
9	F	U11'8S	F	F	7'3	5'1	8'2	11'2	12'4	13'6	12'6	12'1
10	13'6	U12'8F	11'3	10'8	10'1	U7'0S	7'9	11'4	12'6	12'5	12'5	12'2
11	F	12'7	U11'8S	10'3	8'4	5'9	U7'9S	11'4	12'9	13'3	12'3	12'2
12	F	11'1	U9'6FS	9'0	8'6	6'4	U7'9S	11'3	13'3	13'2	12'7	12'3
13	F	F	F	5'3	3'8	3'0	7'7	11'4	13'1	13'5	12'8	11'8
14	F	F	7'3	F	F	F	U7'4S	11'0	12'7	12'8	C	C
15	U12'2R	U10'5F	F	U7'9F	F	F	7'8	11'0	13'0	13'5	C	C
16	F	F	8'6F	F	F	F	F	11'1	13'0	13'6	11'4	11'6
17	U11'5S	U11'5S	11'4	12'1	J11'9S	J9'8F	11'4	13'1	14'1	14'4	13'1	12'6
18	12'8	12'6	F	11'4	8'8	5'4	7'7	11'5	13'4	J14'0R	14'8	14'3
19	11'3F	10'2	F	9'3F	F	F	F	11'5	13'1	14'6	14'4	12'5
20	F	J12'0S	F	7'6	F	F	7'3	11'0	13'0	13'1	C	C
21	U11'4F	F	8'6	U8'6F	8'0	F	7'7	11'0	12'7	12'7	C	C
22	F	F	U8'6F	F	U7'5F	4'9	7'7	11'2	13'1	U13'2R	11'9	11'6
23	F	U10'4F	F	8'0	F	5'2	7'4	10'9	12'3	12'1	11'5	11'0
24	10'8	J9'8S	F	F	F	F	U7'6F	11'2F	12'7	12'3	11'8	11'8
25	U11'4S	F	F	7'6	F	4'8	7'5	11'2	13'2	13'5	11'6	11'5
26	10'2	8'8	7'8	7'6	6'3	4'5	7'8	11'0	12'8	12'9	13'0	13'2
27	U12'0S	U12'0FS	10'5S	U8'5S	8'7	7'9	8'6	12'1	13'4	13'1	C	C
28	F	F	F	10'6	8'8	F	9'2	11'5	12'6	C	C	C
29	F	F	F	F	7'6	F	8'0	11'6	13'8	14'4	12'1	11'1
30	F	F	F	8'6	8'0	6'3	8'4	11'6	14'0	14'8	14'5H	12'3
Mean	11'8	U11'1	9'7	8'9	8'0	6'1	8'1	11'3	13'0	13'4	12'8	12'3
Median	11'6	U11'1	9'8	8'7	8'0	5'8	7'9	11'3	13'0	13'3	12'6	12'2
Count	14	17	16	20	19	19	28	30	30	29	24	24

Sweep 1 Mc. to 25 Mc. in 27 Seconds.

Characteristic : foF₂

Unit : Mc.

Month : September 1958

TABLE 23

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11.1	10.8	11.3	11.7	12.1	U11.9s	11.6	U'10.2F	F	F	F	F	1
12.2	12.6	12.9	13.1	13.3	12.6H	12.3H	F	F	F	F	F	2
10.9	11.5	11.7	11.6	12.3	12.6	12.5H	U9.4F	F	U11.0F	12.9	13.1	3
14.1	13.8	13.5	13.2	12.7	11.8	11.1	U7.6F	F	F	F	F	4
13.7	13.7	12.6	12.5	12.4	U11.8s	10.8	U9.8s	U9.2F	F	10.5	10.7	5
U14.9R	14.0	13.4	12.8	12.5	U11.9s	U11.2s	U9.8s	F	F	F	F	6
11.5	11.8	12.4	12.4	12.4	12.4	U11.6s	U9.2W	F	F	F	F	7
11.9	11.9	11.9	12.5	12.9	12.9	12.7	10.7	F	F	F	U12.2F	8
11.8	11.8	12.7	13.1	13.4	13.6	U13.5s	F	F	F	F	13.8	9
12.4	12.6	12.9	13.5	14.1	14.0	13.2	F	F	F	F	F	10
12.1	12.6	C	C	C	C	12.8	11.4	F	F	F	F	11
12.0	12.5	12.9	13.5	13.7	U13.6s	U13.0s	FS	F	FS	F	U13.2s	12
11.5	C	11.5	11.4	11.1	10.9	U10.3s	F	F	F	F	F	13
C	C	B	12.3	12.5	U12.8R	S	F	F	F	F	F	14
C	C	C	11.3	11.4	U11.7s	U11.6s	U10.7s	F	F	F	F	15
11.8	11.8	11.6	11.0	11.4	11.6	J12.0s	11.4	10.1	10.5	12.5	12.8	16
12.4	12.6	J12.9R	13.5	13.7	13.7H	13.0H	10.6H	F	F	F	U12.7F	17
13.5	13.7	14.5	14.4	14.5	14.5	11.4	11.4	F	F	F	F	18
11.8	12.0	12.3	J12.0R	11.4	11.0	U10.5s	F	F	F	F	F	19
C	C	11.3	11.9	12.3	12.3H	S	U8.8F	F	F	U11.4s	F	20
C	C	C	13.5	13.8	13.8	13.0	U10.6F	F	F	F	F	21
11.8	12.2	13.1	13.5	13.5	U13.6s	13.0	F	F	F	F	F	22
11.0	11.7	12.6	12.9	13.0	12.6	U11.0R	F	F	F	F	F	23
12.1	12.5	12.8	13.4	13.7	J14.2R	U13.4s	U10.8F	F	F	F	F	24
12.1	12.9	13.5	13.6	U13.4s	U13.0R	U11.5sH	U11.6sH	12.7H	14.1	14.0	11.0	25
13.2	13.7	14.2	14.6	14.0	13.4	U11.8s	U9.2s	F	F	F	F	26
C	C	U13.5R	U13.7R	13.0	12.0	11.6	9.6	F	F	F	F	27
C	C	12.2	12.5	12.6	12.2	11.5	10.6H	10.5H	F	F	F	28
10.9	11.4	12.0	12.0	12.5	12.5	U12.0s	F	F	F	F	F	29
12.0	12.2	12.8	12.9	12.8	12.8	U12.2R	U11.6s	12.8	14.7	14.5	14.0	30
12.2	12.4	12.7	12.8	12.8	12.7	12.0	U10.2	U11.1	..	U12.6	12.6	Mean
12.0	12.5	12.8	12.9	12.8	12.6	12.0	U10.6	U10.5	..	U12.7	12.8	Median
24	23	26	29	29	29	27	20	5	4	6	9	Count

Sweep 1 Mc. to 25 Mc. in 27 Seconds.

Characteristic : foF2

TABLE 23—Contd.

Latitude : 10.2° N

Unit : Mc.

Ionospheric Data

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	11'6	10'2	F	7'4	6'0	5'4	9'2	11'8	13'0	12'2	11'5	11'1
2	F	U11'4 ^F	F	U7'1 ^F	6'2	5'7	10'1	12'0	13'0	12'8	12'1	12'1
3	F	U11'6 ^F	F	F	F	F	9'8	12'0	13'2	12'6	10'8	10'7
4	10'4	10'0	9'2	U7'7 ^s	6'4	6'3	10'2	12'3	13'4	13'9	14'2	14'1
5	F	F	F	F	F	F	9'6	11'0	12'1	12'5	13'3	13'4
6	U10'0 ^s	8'5	8'7	8'4	7'5	6'0	10'2	12'7	14'3	15'8	15'8	U15'4 ^R
7	F	F	9'4	F	U9'2 ^F	6'9	10'3	12'2	12'9	12'3	11'7	11'6
8	F	F	F	F	9'1 ^F	8'7	10'9	12'7	13'8	13'7	U13'0 ^R	12'1
9	F	10'9	F	8'6 ^F	5'6	6'3	10'0	11'8	13'0	13'5	12'1	11'8
10	F	12'2	10'9	10'8	8'6	5'6	10'1	12'0	12'7	12'6	12'2	12'2
11	U13'2 ^s	12'3	F	U9'5 ^s	7'0	5'7	U9'8 ^s	12'4	U13'3 ^R	12'9	11'9	12'0
12	F	10'5	FS	FS	7'5	5'3	9'9	12'5	13'5	12'8	12'5	J12'0 ^s
13	F	F	6'7	U4'3 ^F	3'6	5'1	10'1	12'4	13'8	13'5	12'3	11'6
14	F	U9'0 ^F	F	F	U3'3 ^F	U4'4 ^F	U9'3 ^s	11'9	13'0	C	C	C
15	10'8	F	U8'3 ^F	F	F	U5'0 ^F	U9'8 ^s	12'1	13'4	C	C	C
16	F	8'8 ^F	9'2 ^V	F	F	F	U9'8 ^{FS}	12'0	13'6	U12'8 ^R	11'1	11'6
17	11'6	11'0	11'6	12'4	11'1	10'4	12'4	13'6	14'4	13'7	12'8	12'6
18	12'4	F	U11'6 ^s	10'4	7'7	5'4	10'0	12'4	14'1	14'9	14'7	13'6
19	J11'0 ^R	U9'3 ^F	F	F	U9'5 ^F	F	10'4	12'4	14'1	14'6	13'3	12'2
20	U12'6 ^R	F	8'9	5'8	F	4'8 ^H	U9'6 ^s	12'2	13'2	C	C	C
21	U10'8 ^s	9'0	F	U8'3 ^F	F	F	U9'4 ^s	12'0	C	C	C	C
22	U11'7 ^s	F	F	F	6'4	5'6 ^H	U9'8 ^s	12'5	13'4	U12'6 ^R	11'7	11'6
23	U10'8 ^F	U9'2 ^F	F	7'2	F	5'2 ^H	U9'2 ^s	U11'8 ^s	12'5	11'8	11'2	10'8
24	J10'4 ^R	F	F	F	F	U4'8 ^F	U9'4 ^F	12'0	13'0	11'8	U11'6 ^s	11'9
25	U10'8 ^s	U9'2 ^{FS}	7'9 ^F	F	U6'2 ^s	5'0 ^H	9'8	12'6	13'5	U12'8 ^R	11'2	11'8
26	9'3	8'0	7'7	7'3	5'2	5'4	9'7	12'0	13'1	12'9	13'1 ^H	13'2
27	U12'0 ^s	11'1	U9'3 ^s	F	8'4	7'0	10'7	13'0	13'6	12'8	C	C
28	13'0	F	F	9'6	F	7'6	10'6	12'4	12'4	C	C	C
29	F	U10'4 ^F	F	8'6	6'5	5'5	10'2	12'9	14'6	13'4	11'5	10'9
30	F	F	F	8'4	7'2	6'2	10'2	13'2	14'8	U14'6 ^R	12'8	12'0
Mean	U11'3	10'1	9'2	8'3	7'0	6'0	10'0	12'3	13'3	13'2	12'4	12'2
Median	U11'0	10'2	9'2	8'4	7'0	5'6	10'0	12'2	13'4	12'8	12'2	12'0
Count	17	19	13	17	21	25	30	30	29	25	24	24

Sweep 1 Mc. to 25 Mc. in 27 Seconds.

Characteristic : foF₂

Unit : Mc

Month : September 1958

TABLE 23—(Contd.)

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11'0	11'2	11'4	11'9	12'0	12'0	11'0	09'5F	F	F	10'9F	F	1
12'4	12'7	12'9	13'3	13'OH	12'7H	11'6SH	F	F	F	F	F	2
11'0	11'6	11'5	11'8	12'5	12'9	10'9	F	F	12'3F	13'5	12'4	3
14'1	13'7	13'0	12'8	12'2	11'5	09'6s	F	F	F	F	F	4
13'9	13'2	12'6	12'6	12'4	11'4	10'6	09'4F	09'2F	10'0F	10'5s	10'5	5
11'4'2R	11'3'3R	13'0	12'4	12'4	11'4	10'8	F	F	F	F	11'7	6
11'6	11'9	12'5	12'3	12'4	12'3s	10'6s	F	F	F	F	F	7
11'9	11'8	12'1	12'9R	12'8	12'9	11'6	F	F	F	F	12'9F	8
11'7	12'2	12'9	13'1	13'6	13'7	12'9	F	F	F	F	13'9	9
12'7	12'7	13'3	13'9	14'1	13'8	12'4	F	F	F	F	F	10
12'3	12'8	C	C	C	C	11'2'3R	F	F	F	F	F	11
12'3	12'8	13'2	13'5	13'7	13'4	S	F	F	F	11'3'0s	13'0s	12
C	11'3	11'5	11'3	11'0	10'7	10'2W	F	F	F	F	F	13
C	C	11'8	12'5	12'7	12'7	11'5s	F	F	F	F	F	14
C	C	11'4	11'2R	11'5s	11'7s	11'1'1s	F	F	F	F	F	15
11'9	11'8	11'1	10'9	11'4	12'3	11'5	10'6	10'1s	11'1'3F	13'1	12'1	16
12'6	12'9	13'3	13'6	13'6H	13'4H	11'8SH	F	F	F	12'8	F	17
13'5	14'4	14'2	14'6	14'6	14'6	S	F	F	F	11'1'4F	F	18
11'8	12'2	12'3	11'7	11'4	10'8	10'3	F	F	F	F	F	19
C	11'0	11'6	12'3	12'3	12'3	12'0s	10'6	8'6	F	F	F	20
C	C	13'4	13'6	13'6	13'6	13'2R	F	F	F	F	F	21
11'8	12'6	13'4	13'6R	13'8	13'8	13'4s	F	F	F	F	F	22
11'4	12'0	12'7	13'0	12'8R	12'0s	09'0W	F	F	F	F	F	23
12'4	12'8	13'2	13'4	14'0s	14'0s	11'8s	F	F	F	F	F	24
12'6	13'2	13'6	13'8	13'1	12'4H	11'5SH	11'6SH	13'6s	14'1	12'7	10'6	25
13'3	13'8	14'6	14'3	13'6	12'8R	11'5W	F	F	10'4F	F	F	26
C	C	13'8	13'1	12'5R	11'8	10'7	F	F	F	F	F	27
C	C	12'4	12'6	12'4R	11'8s	11'0	F	F	F	F	F	28
11'0	11'8	12'0	12'2	12'7	12'6	10'9	F	F	F	F	F	29
12'1	12'6	12'8	12'8	12'9	12'6	12'0s	12'0s	13'6	14'6	14'2	13'7	30
12'3	12'5	12'7	12'8	12'8	12'5	11'2	10'3	..	12'1	12'4	12'3	Mean
12'3	12'6	12'8	12'8	12'7	12'6	11'3	10'0	..	11'8	12'8	12'4	Median
23	25	29	29	29	29	28	6	4	6	9	9	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

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Characteristic : foF1

TABLE 24

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19							L	L	L	L	L	L
20							L	L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
Mean						
Median						
Count						

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : September 1958

TABLE 24

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L	.. .. L							1 2 3 4 5
L L L L L	L L L L L	L L L L L	L L L L A	L L L L L	L L L L							6 7 8 9 10
L L L C C	L L C C C	C L L B C	C L L L L	C L L L L	C .. L							11 12 13 14 15
L L L L C	L L L L C	L L L L LH	L L L L L	L L L L L	L							16 17 18 19 20
C L L L L	C L L L L	C L L L L	L L L L L	L L L L L	L L L L L							21 22 23 24 25
L C C L LH	L C C LH LH	L L L LH L	L L L L L	L L L L L								26 27 28 29 30
..	..	..	..	..	..							Mean
..	..	..	..	..	..							Median
..	..	..	..	..	..							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foF1

TABLE 24 (Contd.)

Latitude : 10.2° N

Unit : Mc.

Ionospheric Data

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2							L	L	L	L	L	L
3							L	L	L	L	L	L
4								L	L	L	B	L
5							L	L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11							L	L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18							L	L	L	L	L	L
19							L	L	L	L	L	L
20							L	L	L	L	L	L
21								LH	C	C	C	C
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	LH	LH
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
Mean						
Median						
Count						

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc.

Month : September 1958

TABLE 24 (Contd.)

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L L L L L	L L L L L	L L L L L	L L L L L	.. .. L L L								1
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								2
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								3
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								4
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								5
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								6
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								7
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								8
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								9
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								10
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								11
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								12
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								13
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								14
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								15
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								16
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								17
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								18
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								19
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								20
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								21
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								22
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								23
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								24
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								25
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								26
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								27
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								28
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								29
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								30
..	..	..	..	..								Mean
..	..	..	..	..								Median
..	..	..	..	..								Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc

Month : September 1958

TABLE 25
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3°0H A	A	A	A	A
2								3°0	A	A	A	A
3								3°0	A	A	A	A
4								A	A	A	B	A
5												
6								3°0	R	A	A	A
7								..	A	A	A	A
8							R	R	A	A	A	A
9								3°0	A	A	A	A
10								A	A	A	A	A
11								U2°9A	A	A	A	A
12								U3°0A	A	B	A	A
13								U3°2R	A	A	A	A
14								R	A	A	C	C
15								3.0	A	A	C	C
16								A	U3.5A	U4.2A	A	A
17								U2°8A	A	A	A	A
18								2°9H	A	B	B	A
19								2°9	3.2	A	A	A
20								2°9	U.39A	A	C	C
21								3°0	A	A	C	C
22								2°7	A	A	A	A
23								A	A	A	A	A
24								A	A	A	A	A
25								2°9	A	A	A	A
26								2°7	A	A	A	A
27								A	A	A	C	C
28								A	A	C	C	C
29								2°9	A	A	A	A
30								R	A	A	A	A
Mean	.							2.9
Median	.							3°0
Count	.							18	3	1

Sweep 1 Mc. to 25 Mc. in 27 seconds,

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Characteristic : foE

Unit : Mc

Month : September 1958

TABLE 25
Ionospheric Data
75.0° E Mean Time

Latitude : 16.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A	..							1
A	A	4.0	U4.0A	B	A							2
A	A	A	A	A	A							3
A	A	A	A	A	A							4
												5
A	A	A	A	A	A							6
A	A	A	A	A	..							7
A	A	A	A	A	A							8
			3.8	A	A							9
A	A	C	C	C	C							10
B	A	A	A	A	A							11
A	C	B	B	U3.5R	A							12
C	C	C	A	A	..							13
												14
A	A	A	A	A	..							15
A	A	4.0	A	..	..							16
A	B	B	A	A	..							17
A	A	A	A	A	A							18
C	C	A	3.6	3.2	..							19
A	B	A	A	A	A							20
A	A	A	A	3.3	..							21
A	A	A	A	A	..							22
												23
A	A	A	A	A	..							24
C	C	A	A	A	..							25
A	A	B	A	A	..							26
C	C	A	A	A	..							27
A	A	A	A	A	A							28
												29
												30
..	..	..	..	..	..							Mean
..	..	..	..	..	..							Median
..	..	2	3	3	..							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc.

Month : September 1958

TABLE 25 (Contd.)

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2'5	3'4 ^H	A	A	A	A
2							2'6	A	A	A	A	A
3							2'7 ^H	A	A	A	A	A
4							2'6 ^H	A	A	A	B	A
5							2'6 ^H	A	A	A	A	A
6							R	A	A	A	A	A
7							..	B	A	A	A	B
8							2'6	A	A	A	A	A
9							2'6	3'4	A	A	A	A
10							2'7	A	A	A	A	A
11							2'7 ^H	A	A	A	A	A
12							2'8 ^H	U3'1A	A	A	A	A
13							2'7 ^H	A	A	A	A	A
14							2'7 ^H	A	A	C	C	C
15							..	A	A	C	C	C
16							2'5	3'4	U4'0A	A	A	B
17							2'5	U3'2A	A	A	A	A
18							2'5 ^H	2'9	A	B	A	A
19							2'5	3'0	3'5	A	A	A
20							2'5	3'4	U3'6A	C	C	C
21							2'6	A	C	C	C	C
22							2'6	A	A	A	A	A
23							2'6 ^H	A	A	A	A	A
24							2'7 ^H	A	A	A	A	A
25							2'6	A	A	A	A	A
26							2'5	A	A	A	B	A
27							2'3	A	A	A	C	C
28							2'5	A	U4'1A	C	C	C
29							2'5	U3'2A	A	A	A	A
30							2'5	U2'3R	A	A	A	A
Mean							2'6	3'1	..	..	..	..
Median							2'6	3'2	..	..	..	..
Count							27	10	4	..	..	..

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc

Month : September 1958

TABLE 25 (Contd.)

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	3.2								1
A	U4.2A	4.0	A	A								2
A	A	A	B	A								3
A	A	A	A	A								4
												5
A	A	A	A	A								6
A	A	A	A	A								7
A	A	A	A	A								8
A	A	A	R	A								9
												10
A	A	C	C	C								11
B	A	B	A	A								12
C	A	A	B	A								13
C	C	A	A	A								14
												15
A	A	A	A	A								16
A	3.8	S	B	..								17
A	B	A	A	..								18
A	A	A	A	A								19
C	A	A	A	A								20
C	C	R	R	A								21
A	B	A	A	A								22
A	A	A	A	A								23
A	A	A	U3.5A	2.8								24
			B	A								25
A	U4.0A	A	A	A								26
C	A	A	B	A								27
C	C	A	A	..								28
A	A	A	A	A								29
												30
..	..	..	..	..								Mean
..	..	..	..	..								Median
..	3	1	1	2								Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foEs

TABLE 26
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N

Unit : Mc

Longitude : 77.5° E

Month : September 1958

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	..						7.8	G	9.6	11.0	12.0	11.8
2	..						..	7.0	9.6	11.4	12.0	11.8
3	8.8						..	5.4	9.6	10.8	11.5	11.4
4	6.8	2.4					U6.4s	5.8	10.2	10.0	12.0	11.0
5	..	2.3					..	7.4	10.8	10.8	B	11.8
6		3.4						4.1	G	10.0	11.6	11.8
7						6.6		8.4	9.4	10.4	11.8	12.0
8							G	7.0	8.6	10.5	11.4	C
9								G	8.6	10.6	11.2	12.0
10	4.0							8.6	9.8	11.0	11.8	12.0
11	..							7.6	9.0	11.0	12.0	11.6
12	..							7.8	10.0	10.4	11.6	12.1
13	S						4.8	G	10.3	10.8	11.6	11.8
14								G	10.7	11.3	C	C
15								G	10.4	11.1	C	C
16								3.8	8.6	10.6	11.4	11.2
17		3.5						6.7	9.8	10.8	11.4	11.6
18		..						G	8.8	9.4	10.8	11.4
19	4.7	2.8	6.4					G	7.6	9.4	10.8	11.4
20								3.6	9.8	10.4	C	C
21								G	11.0	11.6	C	C
22								G	10.2	11.0	11.0	12.0
23							5.7	8.4	11.0	11.0	11.8	11.4
24								7.0	10.0	11.0	11.8	12.0
25								G	10.4	11.0	11.4	11.4
26								7.0	9.2	10.6	12.0	11.0
27								7.6	9.4	11.0	C	C
28								8.4	10.6	C	C	C
29								G	9.2	10.2	11.4	11.4
30								4.6	8.4	11.0	12.2	12.0
Mean	..	2.9	..			..	..	6.6	10.0	10.7	11.6	11.6
Median	..	2.8	..			..	5.7	5.0	9.7	10.8	11.6	11.8
Count	4	5	1			1	5	30	30	29	23	23

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : September 1958

TABLE 26
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11.4	12.0	10.4	10.4	8.0	..							1
11.2	11.0	10.4	10.6	8.8	8.0							2
11.8	11.5	12.2	10.8	7.0	7.0							3
11.1	11.4	12.0	12.0	9.0	7.6							4
11.0	11.4	11.0	12.0	8.0	7.8							5
11.4	11.2	12.0	11.0	9.2	8.0							6
11.8	11.6	11.6	11.0	10.2	8.4							7
11.6	11.6	11.0	11.0	10.4	7.6							8
12.0	10.6	10.0	9.4	11.8	9.4							9
11.8	11.6	10.2	8.0	7.0	7.6							10
11.2	10.0	C	C	C	C				2.4		7.8	11
11.6	11.6	10.9	9.0	8.3	8.5						3.8	12
11.6	C	11.8	11.1	9.7	8.4						4.3	13
C	C	B	9.4	9.0	8.2						5.4	14
C	C	C	10.8	9.0	S						..	15
11.1	11.4	11.6	11.3	8.4	6.8						U4.08	16
10.8	10.8	8.4	8.0	6.4	S						..	17
11.4	11.2	10.4	10.4	7.7	S						3.0	18
11.0	11.5	11.3	10.7	8.8	6.8						..	19
C	C	10.5	10.6	8.4	U6.08						..	20
C	C	C	8.6	8.0	U7.48						..	21
11.0	11.0	11.0	9.0	6.4	7.5						7.0	22
12.0	12.0	11.4	11.0	9.0	7.0						..	23
11.6	12.0	11.2	10.0	C	6.6						..	24
11.4	8.6	7.8	10.0	9.0	8.2						..	25
10.0	11.0	7.8	10.6	9.2	6.8						..	26
C	C	10.0	10.6	8.6	8.0						..	27
C	C	9.0	10.0	8.6	..						..	28
12.0	11.6	11.4	10.4	9.0	8.0						..	29
11.6	11.4	10.8	10.6	8.6	7.0						..	30
11.4	11.2	10.6	10.8	8.6	7.6				..	..	5.0	Mean
11.4	11.4	11.0	10.6	8.6	7.6				..	..	4.8	Median
24	23	26	29	29	24				1	1	7	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foEs

TABLE 26 (Contd.)

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							G	G	10.0	12.0	12.0	12.4
2							G	8.6	11.0	12.2	12.0	11.0
3							G	7.6	10.8	12.2	12.4	11.8
4	06.08						G	8.6	11.0	12.0	11.0	11.4
5							6.8	10.2	10.0	11.6	10.4	11.0
6							G	8.4	8.4	11.6	11.6	11.8
7					7.0		..	8.8	9.7	11.8	11.8	11.2
8							G	8.6	9.8	11.2	11.4	11.0
9							G	7.8	10.4	11.6	12.2	11.6
10							G	8.8	10.6	11.6	11.6	12.0
11							G	9.2	10.6	12.0	11.5	11.8
12			3.0				G	9.4	10.4	11.3	12.2	12.3
13							G	9.2	10.6	11.2	12.0	12.1
14							G	10.1	11.1	C	C	C
15							..	8.6	10.9	C	C	C
16							G	G	10.6	10.8	11.2	10.6
17	4.0						G	8.8	10.2	11.2	11.8	11.6
18	3.2						G	6.6	9.6	10.0	11.2	11.7
19	4.6						G	G	8.8	10.6	11.1	11.0
20	07.08						G	8.4	10.7	C	C	C
21							G	9.0	C	C	C	C
22							G	9.4	9.6	11.0	11.4	11.0
23							G	10.0	11.0	11.4	11.6	12.0
24							G	9.2	11.0	11.7	12.0	12.0
25							G	9.2	10.6	11.4	11.4	11.2
26							G	9.2	10.4	11.0	11.2	11.4
27							G	8.7	10.5	11.4	C	C
28							7.8	9.4	10.6	C	C	C
29							G	8.0	9.0	11.0	11.6	11.0
30							G	G	9.6	12.0	12.0	11.6
Mean	5.0		..		..		..	8.8	10.3	11.4	11.6	11.5
Median	4.6		..		..		G	8.8	10.5	11.4	11.6	11.6
Count	5		1		1		28	30	29	25	24	24

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : September 1958

TABLE 26 (Contd.)

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
12.0	12.0	10.6	8.6	6.8								1
11.4	10.4	10.6	8.8	8.6								2
11.6	12.2	12.0	B	6.8	8.6						8.0	3
11.6	12.0	12.0	9.4	8.6								4
10.8	10.1	11.2	8.2	8.0	7.0				2.3			5
12.0	12.0	11.9	9.4	9.0								6
11.8	11.4	11.4	10.2	8.8								7
11.0	11.0	10.8	8.6	9.6								8
11.0	10.8	8.6	12.0	8.6	8.0							9
12.0	11.0	9.8	G	4.0							5.0	10
12.2	9.9	C	C	C	C							11
11.8	11.0	9.4	8.6	8.2	S				2.1		8.8	12
C	11.2	11.5	9.8	9.6	S			1.8			8.8	13
C	C	B	9.6	9.2	S							14
C	C	11.0	9.6	8.6						U2.7R		15
11.6	11.4	10.8	9.0	7.8								16
11.3	9.8	8.4	6.8	7.8	S						2.6	17
10.8	11.0	10.2	11.0	8.0								18
11.0	11.4	10.8	9.4	8.3								19
C	8.8	10.8	8.6	7.7					2.1		2.4	20
									2.0			21
C	C	7.4	G	8.2								22
11.0	11.0	9.2	8.0	8.7								23
11.4	11.6	11.4	9.0	8.0							7.0	24
11.4	11.4	11.3	7.7	7.0								25
8.8	11.6	10.0	7.8	8.6								26
10.4	9.0	10.4	9.0	8.2								27
C	C	11.0	9.0	8.0								28
C	C	10.2	9.0	8.0								29
11.4	11.8	11.0	9.0	8.0								30
11.6	11.0	10.6	8.6	8.4							6.0	
11.3	11.0	10.5	9.0	8.1	..			..	..	..	6.1	Mean
11.4	11.0	10.8	9.0	8.2	..			..	..	..	6.5	Median
23	25	28	28	29	3			1	4	2	8	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fbEs

TABLE 27

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							2.1	..	3.7	4.2	4.5	4.8
2								3.0	3.7	4.2	4.5	4.6
3	2.1							3.2	3.7	4.1	4.6	4.8
4	2.5	1.7					2.2	3.0	3.8	4.2	4.3	4.5
5		1.7						3.0	3.7	4.2	..	4.5
6		2.1						3.1	..	4.4	4.3	4.6
7						2.4		3.4	3.9	4.2	4.5	4.6
8								3.1	3.9	4.2	4.4	4.6
9								..	3.6	4.1	4.3	4.6
10	2.5							3.1	3.6	4.3	4.5	4.7
11								3.1	3.7	4.1	4.5	4.6
12								3.1	3.9	4.4	4.5	4.8
13							2.3	..	3.8	4.3	4.8	5.0
14								..	3.8	4.3	C	C
15								..	3.8	4.5	C	C
16								3.2	3.9	4.2	4.6	4.7
17								3.0	3.6	4.2	4.4	4.6
18								..	3.6	..	..	4.6
19	2.1	2.2	2.3					..	3.8	4.1	4.4	4.5
20								3.1	3.9	4.2	C	C
21								..	3.7	4.2	C	C
22								..	3.6	4.1	4.4	4.6
23								3.0	3.6	4.2	4.4	4.5
24								3.0	3.7	4.2	4.5	4.5
25								..	3.8	4.0	4.4	4.4
26								3.0	3.8	4.0	4.2	4.4
27								3.0	3.6	4.0	C	C
28								3.1	3.6	C	C	C
29								..	3.6	4.1	4.4	4.6
30								3.4	3.6	4.0	4.4	4.5
Mean	..	..	..			..	..	3.1	3.7	4.2	4.4	4.6
Median	..	..	..			..	..	3.1	3.7	4.2	4.4	4.6
Count	4	4	1			1	3	19	29	28	22	24

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : September 1958

TABLE 27
Ionospheric Data

75.0° E Mean Time

Latitude : 10° 2' N

Longitude : 77° 5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
4.8	4.6	4.4	4.0	3.6	..							1
4.7	4.7	4.4	4.0	4.0	3.0							2
4.8	4.6	4.4	4.0	4.0	3.1							3
4.6	4.5	4.4	4.0	3.6	2.9							4
4.6	4.5	4.2	4.0	3.5	2.9							5
4.7	4.5	4.6	4.1	3.6	3.0							6
4.6	4.6	4.4	4.0	3.5	2.8							7
4.5	4.4	4.3	4.1	4.2	2.8							8
4.5	4.6	4.3	4.0	4.5	3.4							9
4.6	4.5	4.4	3.9	3.4	..				2.0		2.3	10
4.5	4.6	C	C	C	C							11
..	4.5	4.5	4.2	3.8	3.0						3.3	12
4.8	C	4.4	4.1	3.8	3.0						2.0	13
C	C	C	..	3.8	2.8							14
C	C	C	4.3	3.8	..							15
4.8	4.7	4.4	4.0	3.6	..							16
4.6	4.4	..	4.2	..	..							17
4.6	4.6	..	4.0	3.6	..						3.0	18
4.8	4.6	4.3	3.8	3.6	2.7							19
C	C	4.3	4.0	3.6	..					2.0		20
C	C	C	4.0	3.8	..							21
4.4	..	4.2	3.9	3.5	2.7							22
4.6	4.4	4.2	3.8	3.4	2.6						2.7	23
4.6	4.6	4.2	3.9	..	..							24
4.5	4.6	4.0	3.9	3.4	2.6							25
4.5	4.4	4.2	3.7	3.3	2.6							26
C	C	4.4	3.8	3.4	..							27
C	C	..	3.8	3.4	..							28
4.5	4.4	4.0	3.9	3.2	..							29
4.4	4.4	4.3	3.8	3.4	2.6							30
4.6	4.5	4.3	4.0	3.6	2.8				..	..	2.5	Mean
4.6	4.6	4.4	4.0	3.6	2.8				..	..	2.5	Median
23	22	23	28	27	17				1	1	6	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc

Month : September 1958

TABLE 27 (Contd.)

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								..	4.0	4.2	4.5	4.7
2								3.5	3.9	4.4	4.8	4.8
3								3.5	4.2	4.4	4.7	4.8
4	2.2							3.5	4.1	4.2	..	4.6
5							2.6	3.4	4.0	4.4	4.6	4.7
6								3.4	4.0	4.4	4.6	4.6
7					2.3			..	4.0	4.3	4.5	..
8								3.6	3.9	4.3	4.5	4.5
9								3.5	3.8	4.3	4.5	4.6
10								3.4	4.0	4.4	4.6	4.7
11								3.4	4.0	4.5	4.6	4.7
12			2.0					3.5	4.1	4.5	4.7	5.0
13								3.6	4.0	4.7	4.7	4.9
14								3.1	4.1	C	C	C
15								3.5	4.1	C	C	C
16								..	4.0	4.4	4.6	4.8
17								3.4	4.0	4.2	4.5	4.6
18	1.8							3.6	3.9	..	4.6	4.7
19	2.1							..	3.8	4.2	4.4	4.6
20	2.6							3.5	4.0	C	C	C
21								3.3	C	C	C	C
22								3.4	3.8	4.2	4.6	4.4
23								3.4	4.0	4.3	4.4	4.6
24								3.4	3.9	4.4	4.4	4.6
25								3.4	4.0	4.2	4.3	4.4
26								3.4	3.9	4.2	4.6	4.6
27								3.4	3.9	4.2	C	C
28							2.8	3.4	4.2	C	C	C
29								3.4	4.0	4.2	4.4	4.6
30								..	3.9	4.2	4.4	4.6
Mean	..		..		..		..	3.4	4.0	4.3	4.5	4.7
Median	..		..		..		..	3.4	4.0	4.3	4.6	4.6
Count	4		1		1		2	25	29	24	23	23

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : f_hE_s

Unit : Mc

Month : September 1958

TABLE 27 (Contd.)

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.8	4.5	4.1	4.0	3.3								1
4.7	4.7	4.2	3.8	3.4								2
4.7	4.5	4.2	..	3.5	3.0						2.4	3
4.6	4.6	4.1	3.8	3.3	..							4
4.8	4.4	4.1	3.8	3.2	2.6				1.9			5
4.7	4.8	4.4	3.8	3.3								6
4.6	4.5	4.1	3.8	3.2								7
4.4	4.4	4.2	3.9	3.8								8
4.4	4.6	4.2	4.3	3.7	2.8							9
4.6	4.5	4.0	..	3.4							2.4	10
4.5	4.5	C	C	C	C							11
5.0	4.7	..	4.1	3.4	2.9				1.9		3.1	12
C	4.5	4.4	4.1	3.4	2.5			1.7			2.6	13
C	C	..	..	3.2	2.3					1.9		14
C	C	4.5	4.2	3.4								15
4.7	4.6	4.2	3.8	3.2								16
4.6	4.3	4.2	..	..							2.0	17
4.6	..	4.3	4.4	..								18
4.6	4.5	4.1	3.8	3.1								19
C	4.7	4.4	3.9	3.2					2.0		1.9	20
C	C	4.0	..	3.2					1.8			21
4.6	..	4.1	3.8	3.2								22
4.4	4.4	4.0	3.7	3.0							2.6	23
4.6	4.4	4.1	3.6	3.0								24
4.4	5.0	4.2	..	3.0								25
4.5	4.2	4.0	3.7	3.0								26
C	C	4.0	..	3.0								27
C	C	4.2	4.0	..								28
4.6	4.4	4.0	3.6	3.0								29
4.4	4.3	4.0	3.7	3.0							2.4	30
4.6	4.5	4.2	3.9	3.2	2.7			..	..	..	2.4	Mean
4.6	4.5	4.1	3.8	3.2	2.7			..	..	..	2.4	Median
23	23	27	22	26	6			1	4	1	8	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fmin

Unit : Mc

Month : September 1958

TABLE 28

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	1.6	1.8	1.8	1.4	1.7	1.6	2.1	2.2	2.5	3.2	3.3	3.4
2	1.6	1.5	1.6	1.6	1.6	1.6	2.1	2.0	2.3	2.7	3.0	3.4
3	1.7	1.7	1.8	1.7	1.7	1.8	2.2	2.0	2.6	3.0	3.2	3.5
4	1.4	1.6	1.7	1.9	1.9	1.8	1.4	2.2	2.4	3.1	3.1	3.5
5	1.5	1.7	1.6	2.2	1.6	1.7	2.3	2.3	2.5	3.0	4.7	3.4
6	1.8	1.8	2.0	2.0	2.0	1.8	2.7	2.3	2.7	3.1	3.2	3.4
7	1.9	1.8	1.8	2.0	C	2.2	2.5	3.0	3.0	3.1	3.1	3.4
8	1.8	1.7	1.8	1.6	1.5	1.5	1.8	2.3	2.5	2.8	3.0	3.5
9	2.1	1.9	1.8	2.0	2.2	1.7	2.2	2.4	2.4	3.0	3.5	3.8
10	2.1	2.3	1.7	1.7	1.6	1.5	2.2	1.8	2.6	3.0	3.1	3.6
11	1.8	1.8	1.7	1.6	1.6	1.8	2.2	2.1	2.5	2.8	3.0	3.2
12	2.4	2.1	1.7	1.8	2.0	1.8	2.2	2.1	2.7	4.1	3.1	3.3
13	1.9	1.9	1.7	1.8	1.8	1.6	2.3	2.4	2.5	3.0	3.1	3.6
14	1.6	1.9	2.1	2.3	1.7	2.0	2.1	2.1	2.8	3.0	C	C
15	1.5	1.6	1.5	1.8	1.9	2.0	2.5	2.5	2.7	3.0	C	C
16	2.1	1.8	1.6	1.7	1.7	2.2	2.4	2.4	2.7	3.4	3.5	3.7
17	1.9	1.7	2.2	1.8	1.4	1.5	2.2	1.9	2.6	3.1	3.0	3.3
18	1.6	1.9	1.7	1.7	1.7	1.6	2.2	1.9	2.4	4.3	5.0	3.6
19	1.5	1.6	1.6	2.1	2.0	2.4	2.4	2.2	2.4	2.8	3.2	3.4
20	1.5	2.4	2.2	1.9	1.7	1.9	2.3	2.2	2.9	3.0	C	C
21	1.6	1.6	1.5	1.8	1.6	1.6	2.2	2.2	2.6	2.9	C	C
22	1.4	1.5	1.5	1.7	1.7	1.6	2.5	2.2	2.4	2.8	3.0	3.2
23	1.7	1.5	2.0	1.7	1.8	1.9	2.2	1.8	2.5	2.9	3.0	3.3
24	1.4	1.4	1.6	1.7	1.8	1.8	2.2	2.2	2.4	2.9	3.2	3.5
25	1.6	1.7	1.7	1.7	1.8	1.7	2.1	2.4	2.5	3.0	3.0	3.2
26	1.8	1.6	1.6	1.5	1.7	1.5	1.7	2.0	2.6	3.0	3.4	3.4
27	1.7	1.8	1.6	1.7	1.9	1.7	2.2	2.2	2.3	3.0	C	C
28	1.6	1.5	1.5	1.6	1.5	1.5	2.2	2.2	2.6	C	C	C
29	1.8	1.6	1.4	1.6	1.9	1.6	2.2	2.0	2.5	2.8	3.0	3.2
30	1.6	1.5	1.3	1.5	1.8	1.5	2.1	2.0	2.4	2.6	2.7	3.2
Mean	1.7	1.7	1.7	1.8	1.8	1.7	2.2	2.2	2.6	3.0	3.3	3.4
Median	1.6	1.7	1.7	1.7	1.7	1.7	2.2	2.2	2.5	3.0	3.1	3.4
Count	30	30	30	30	29	30	30	30	30	29	24	24

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fmin

TABLE 28

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

Date : 1958

12	13	14	15	16	17	18	19	20	21	22	23	Date
3.7	3.6	3.2	2.9	2.8	3.0	1.9	1.4	1.8	1.8	1.8	1.8	1
3.6	3.7	3.4	3.0	4.0	2.4	1.9	1.4	1.8	1.7	2.0	2.0	2
3.6	3.3	3.2	2.7	2.6	2.2	2.0	1.4	1.8	1.9	1.8	2.1	3
3.6	3.4	3.2	3.0	2.6	2.2	1.8	1.8	1.9	1.6	2.0	1.7	4
3.7	3.4	3.3	3.0	2.8	2.4	2.0	1.7	1.8	1.9	1.6	1.5	5
3.6	3.3	3.3	3.1	2.8	2.6	1.7	1.5	1.8	1.9	1.6	1.9	6
3.6	3.6	3.2	2.8	2.6	2.2	1.8	1.3	2.0	1.9	1.9	2.2	7
3.5	3.2	3.0	3.1	2.4	2.2	2.0	1.4	1.9	1.7	2.0	2.0	8
3.4	3.2	2.5	2.7	2.6	2.0	2.2	1.8	2.0	2.2	2.2	1.8	9
3.6	3.5	3.0	2.7	2.5	2.4	2.0	1.5	1.9	1.8	1.9	2.1	10
3.5	3.4	C	C	C	C	2.3	1.6	1.8	1.5	1.8	1.7	11
4.6	3.6	3.3	3.8	3.0	2.5	1.8	1.3	1.6	1.8	1.6	2.0	12
3.4	C	3.2	3.3	3.0	2.4	1.7	1.8	1.8	1.9	1.9	1.7	13
C	C	B	4.9	2.8	2.2	1.6	1.5	1.9	1.8	1.7	2.0	14
C	C	C	3.8	2.8	3.0	1.8	1.6	1.9	1.8	1.6	1.6	15
3.8	3.5	3.1	2.7	2.6	3.0	1.8	1.9	1.7	1.9	1.8	1.8	16
3.4	3.7	U3.48	3.0	3.6	2.8	1.9	1.4	2.0	2.1	2.2	1.6	17
3.8	4.6	4.7	2.5	3.2	2.7	2.0	2.0	1.6	2.0	2.0	2.3	18
3.8	3.7	3.3	2.9	2.6	2.0	1.7	1.7	1.9	1.7	1.4	1.7	19
C	C	3.4	3.0	2.6	2.7	1.8	1.8	1.8	2.0	1.7	2.0	20
C	C	C	3.2	2.9	2.6	1.9	1.8	2.2	1.8	1.9	1.9	21
3.8	4.8	3.4	2.6	2.3	2.2	1.7	1.6	1.8	1.7	1.6	2.0	22
3.4	3.2	3.2	2.7	2.6	2.0	1.6	2.0	1.8	1.3	1.6	1.7	23
3.6	3.2	3.0	2.8	2.8	2.6	1.6	1.8	1.8	1.8	1.6	1.5	24
3.0	2.6	2.6	3.0	2.8	2.4	1.7	1.8	2.2	1.9	2.0	1.8	25
3.6	3.4	2.8	2.6	2.5	2.6	1.5	1.8	2.0	2.0	1.8	1.7	26
C	C	2.8	2.6	2.8	2.6	1.5	1.8	1.9	1.6	2.2	1.9	27
C	C	4.2	3.0	2.6	2.6	1.5	1.2	1.7	1.8	2.0	2.1	28
3.2	3.2	3.0	2.8	2.8	2.6	1.6	1.5	1.8	1.8	2.0	1.8	29
3.4	3.0	3.0	2.8	2.8	2.4	1.8	1.4	1.4	1.9	1.6	1.5	30
3.6	3.5	3.2	3.0	2.8	2.5	1.8	1.6	1.8	1.8	1.8	1.8	Mean
3.6	3.4	3.2	2.9	2.8	2.4	1.8	1.6	1.8	1.8	1.8	1.8	Median
24	23	26	29	29	29	30	30	30	30	30	30	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : f_{min}

Unit : Mc

Month : September 1958

TABLE 28—(Contd.)

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.0	1.7	1.8	1.6	1.6	1.9	1.9	2.4	2.6	2.8	3.2	3.2
2	1.8	1.5	1.5	1.6	1.6	1.8	2.2	2.2	2.6	3.0	3.6	3.6
3	2.0	1.6	1.8	1.5	1.8	2.1	2.1	2.3	2.8	3.0	3.2	3.4
4	1.4	1.6	2.0	2.3	2.0	1.7	1.8	2.2	2.7	3.0	5.0	3.3
5	1.8	1.7	1.9	1.6	1.8	1.7	1.8	2.2	2.6	2.8	3.4	3.8
6	1.7	1.8	1.9	2.1	1.7	2.2	2.0	2.6	2.8	3.2	3.2	3.7
7	2.2	1.5	1.6	2.2	2.2	2.4	2.8	3.6	3.0	3.0	3.3	4.6
8	1.7	2.2	1.8	1.5	1.5	2.0	1.9	2.4	2.6	2.8	3.0	3.8
9	1.8	1.7	1.8	2.3	2.1	1.8	2.2	2.3	3.0	3.0	3.6	3.7
10	1.7	2.0	1.6	1.6	1.6	1.6	1.9	2.1	2.4	3.0	3.2	3.5
11	1.6	1.7	1.6	1.7	1.8	2.3	1.9	2.2	2.6	3.0	3.7	3.6
12	2.2	1.8	1.8	2.0	1.9	2.0	2.0	2.3	2.8	3.2	3.2	3.4
13	2.0	1.8	1.7	1.9	1.7	1.7	2.3	2.3	2.8	3.1	3.3	3.5
14	1.8	1.9	2.0	1.8	1.7	2.1	2.1	2.5	3.1	C	C	C
15	1.7	1.7	1.6	1.9	1.9	1.9	2.7	2.5	3.0	C	C	C
16	1.6	1.6	1.7	1.8	1.7	1.9	2.2	2.6	3.1	3.4	3.6	4.6
17	1.7	1.8	1.8	1.9	1.6	1.7	1.8	2.2	2.7	3.1	3.2	3.4
18	1.5	1.6	1.7	1.8	1.8	1.8	2.0	2.5	3.0	5.0	4.0	3.6
19	1.5	1.9	2.3	2.1	2.0	2.2	1.9	2.2	2.6	2.8	3.2	3.6
20	1.5	2.0	2.0	1.9	1.7	2.3	2.1	2.4	2.9	C	C	C
21	1.6	1.1	1.5	1.8	1.7	1.9	2.0	2.4	C	C	C	C
22	1.5	1.6	1.7	1.8	1.7	1.9	2.2	2.3	2.7	2.8	3.2	3.4
23	1.7	1.7	1.8	1.8	1.8	1.9	2.1	2.2	2.7	2.9	3.2	3.2
24	1.5	1.5	1.7	1.6	1.6	2.3	2.1	2.2	2.6	2.8	3.2	3.6
25	1.8	1.6	1.6	1.7	1.6	1.9	2.0	2.2	2.5	2.9	3.2	3.1
26	1.8	1.4	1.4	1.6	1.5	1.7	1.9	2.2	2.6	3.0	4.2	3.6
27	1.7	1.7	1.5	1.6	1.6	1.8	1.7	2.3	2.5	2.8	C	C
28	1.6	1.5	1.4	1.5	1.6	1.7	2.2	2.4	3.0	C	C	C
29	1.5	1.4	1.5	1.6	2.0	1.9	2.1	2.2	2.6	2.8	3.3	3.2
30	1.5	1.4	1.5	1.4	1.5	1.8	1.9	2.3	2.6	2.8	3.0	3.2
Mean	1.7	1.7	1.7	1.8	1.7	1.9	2.1	2.3	2.7	3.0	3.4	3.6
Median	1.7	1.7	1.7	1.8	1.7	1.9	2.0	2.3	2.7	3.0	3.2	3.6
Count	30	30	30	30	30	30	30	30	29	25	24	24

Sweep 1 Mc. to 25 Mc. in 27 seconds,

Characteristic : fmin

Unit : Mc

Month : September 1958

TABLE 28--(Contd.)

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
3.7	3.2	3.0	3.1	2.6	2.5	1.7	1.8	1.6	1.9	1.8	1.8	1
3.7	3.6	3.2	3.0	2.7	2.6	1.3	1.8	1.8	2.0	2.0	1.8	2
3.4	3.3	3.0	4.0	2.5	1.8	1.5	2.0	1.9	1.7	1.6	1.6	3
3.6	3.4	3.0	2.8	2.4	2.4	1.6	1.9	1.6	1.7	1.8	1.5	4
3.6	3.4	3.0	3.0	2.4	2.2	1.6	1.7	2.0	1.7	1.7	1.6	5
3.4	3.2	3.2	3.1	2.6	2.5	1.7	1.7	1.7	1.7	1.8	1.8	6
3.6	3.4	3.1	2.7	2.5	2.4	1.5	1.8	2.0	2.0	2.0	1.8	7
3.4	3.0	2.9	2.8	2.3	2.3	1.7	1.8	1.8	1.8	2.0	2.1	8
3.3	3.8	2.7	2.7	2.4	2.4	1.8	2.0	2.2	2.1	2.2	2.1	9
3.6	3.1	2.8	2.7	2.4	2.6	1.7	2.0	1.8	1.9	2.0	2.1	10
3.6	3.6	C	C	C	C	1.5	1.6	1.9	1.6	1.7	1.6	11
4.8	3.8	5.0	3.3	2.7	2.6	1.4	1.7	1.5	1.8	1.7	1.6	12
C	3.5	3.6	3.2	2.7	2.3	1.4	2.0	1.7	1.9	1.6	1.6	13
C	C	7.0	4.3	2.5	2.2	1.4	1.8	1.6	1.9	1.6	1.8	14
C	C	3.7	3.4	2.8	2.5	1.6	2.2	1.8	1.7	1.9	1.6	15
3.6	3.6	3.0	2.7	2.6	2.6	1.5	1.5	2.0	2.0	1.7	1.7	16
3.6	3.4	3.0	4.0	3.4	2.6	1.5	1.9	2.0	2.2	2.0	1.6	17
3.9	4.8	3.6	2.7	3.2	2.5	1.5	2.0	1.7	1.8	1.7	1.7	18
3.7	3.5	3.0	2.8	2.2	2.3	1.5	2.0	1.9	1.4	1.4	1.4	19
C	3.7	3.2	2.8	2.3	2.4	1.5	1.9	1.9	1.7	1.5	2.0	20
C	C	3.0	3.0	2.4	2.4	1.6	2.0	1.7	1.8	1.7	1.7	21
3.8	4.6	3.0	2.7	2.4	2.2	1.7	1.8	1.8	1.7	1.7	1.4	22
3.3	3.2	3.2	2.8	2.4	2.2	1.8	1.8	2.0	1.6	1.5	1.7	23
3.4	3.0	2.9	2.6	2.4	2.2	1.5	1.9	2.0	1.6	1.7	1.6	24
3.2	2.8	2.8	3.8	2.4	2.4	1.4	1.8	1.8	1.9	2.0	1.8	25
3.5	3.0	2.6	2.8	2.3	2.2	1.4	1.8	1.9	1.8	1.6	1.7	26
C	C	2.8	3.8	2.4	2.2	1.4	1.8	1.8	1.8	1.6	1.5	27
C	C	3.4	3.2	3.0	2.2	1.6	1.4	1.8	2.2	1.5	1.5	28
3.2	3.2	2.9	2.8	2.5	2.0	1.2	1.7	1.7	1.8	1.7	1.7	29
3.0	3.0	2.8	2.8	2.4	2.4	1.5	1.6	2.0	1.7	1.7	1.9	30
3.6	3.4	3.3	3.1	2.5	2.3	1.6	1.8	1.8	1.8	1.7	1.7	Mean
3.6	3.4	3.0	2.8	2.4	2.4	1.5	1.8	1.8	1.8	1.7	1.7	Median
23	25	28	29	29	29	30	30	30	30	30	30	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic F2

TABLE 29

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
11	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
12	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
13	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
14	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
15	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
16	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
17	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
18	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
19	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
21	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
22	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
24	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
25	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
26	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
27	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
28	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
29	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
30	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Mean	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Median	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Count	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Sweep 1 Mc. to 25 Mc. in 27 seconds

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Characteristic : h'F2

Unit : Km

Month : September 1958

TABLE 29

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L	..							1
L	L	LH	L	L	..							2
L	L	L	L	L	L							3
LH	LH	L	L	L	..							4
LH	L	L	L	L	..							5
L	L	L	L	L	L							6
L	L	L	L	L	L							7
L	L	L	L	L	L							8
L	L	L	L	L	L							9
L	L	L	L	L	L							10
L	L	C	C	C	C							11
L	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L	L	L	L	L	L							30
..	..	..	..	..	..							Mean
..	..	..	..	..	..							Median
..	..	..	..	..	..							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F2

TABLE 29—Contd.

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							..	L	L	L	L	L
2							L	L	L	L	L	L
3							L	L	L	L	L	L
4							..	L	L	L	L	L
5							L	L	L	L	L	LH
6							..	L	L	LH	LH	L
7							..	L	L	L	L	L
8							..	L	L	L	L	L
9							..	L	L	L	L	L
10							..	L	L	L	L	L
11							L	L	L	L	L	L
12							..	L	L	L	L	L
13							..	L	L	L	L	L
14							..	L	L	C	C	C
15							..	L	L	C	C	C
16							..	L	L	L	L	L
17							..	L	L	L	L	L
18							L	L	L	L	L	L
19							L	L	L	L	L	L
20							L	L	L	C	C	C
21							..	L	C	C	C	C
22							..	L	L	L	L	L
23							..	L	L	L	L	L
24							..	L	L	L	L	L
25							..	L	L	L	L	L
26							..	L	L	L	L	L
27							..	L	L	L	L	L
28							..	L	L	L	L	L
29							..	L	L	L	L	L
30							..	L	L	L	L	L
Mean						
Median						
Count						

Sweep: 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F2

Unit : Km

Month : September 1958

TABLE 29—*Concl'd.*

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L L L LH L	L L L L	L L L L	L L L L	.. L L L								1
												2
												3
												4
												5
L L L L	L L L L	L L L L	L L L L	L L L L								6
												7
												8
												9
												10
L L C C C	L L C C	C L L L	C L L L	C L L L								11
												12
												13
												14
												15
L L L L C	L L L L	L L L L	L L L L	L L L L								16
												17
												18
												19
												20
C L L L L	C L L L	L L L L	L L L L	L L L L								21
												22
												23
												24
												25
L G C L L	L G C L	L L L L	L L L L	L L L L								26
												27
												28
												29
												30
..	..	..	..	..								Mean
..	..	..	..	..								Median
..	..	..	..	..								Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F

TABLE 30

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	240	235	235	225	220	215	260	240	230	215	200H	200
2	U270F	240	215	235	225	220	270	240	225	210	210	200
3	U270F	U255F	240	240	U220F	220	260	240	225	210H	220H	210
4	295	275	235	245	260	305	275	250	240	220	220	200H
5	U330F	U300F	U260F	U300F	U360F	U370F	290	260	250	240	235	225
6	230	260	260	245	240	215	240	240	220	220	205H	200H
7	280	240	245	240	C	220	245	240	220	220	200H	200H
8	320	300	240	225	240	245	280	245	230	220	220H	215H
9	285	240	230	220	220	280	275	250	240	220	220	215H
10	295	260	230	225	220	215H	270	245	220H	220	220	220
11	280	260	240	230	220	230	270	240	240	215H	220	215
12	260	240	230	240	230	215	270	245	230	230	230	220
13	250	240	240	230	230	240	265	250	230H	200H	220	230
14	245	235	235	U260F	235	U285F	280	250	235	210H	C	C
15	260	250	240	235	230	230	270	245	230H	220	C	C
16	275	270H	240	230	235	230	265	240	230	210H	230	225
17	295	305	300	265	240	240	280	250	235	225	210H	220
18	270	260	230	220	210	205	260	240	220H	225	U235B	215
19	240	235	245	260	235	220	245	240	220H	225	210	210
20	270	245	235	230	230	225	265	240H	235H	210H	C	C
21	250	220	240	240	220	220	260	240	230	210	C	C
22	240	220	240	230	220	220	260	240	230	220	200	200
23	240	230	240	220	220	220	260	240	220	220	220	210
24	240	220	220	220	220	220	255	240	220	220	220	215
25	235	220	220	225	220	220	260	240	230	220	220	220
26	240	240	260	250	225	240	280	250	240	235	230	220
27	245	230	230	240	235	220	265	240	230	220	C	C
28	240	240	240	230	230	220	270	250	235	C	C	C
29	260	255	240	230	230	220	260	245	250	220	210	205
30	240	240	240	240	230	225	265	245	235	220	215	205
Mean	265	250	240	240	235	235	265	245	230	220	220	210
Median	260	240	240	230	230	220	265	240	230	220	220	215
Count	30	30	30	30	29	30	30	30	30	29	24	24

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : August 1958

TABLE 30—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
210	205	205	220	240	260	300	U460F	U430F	F	U350F	305F	1
200	200H	220	225	240	265	315	U480F	U480F	U340F	U360F	U320F	2
205H	215	225	220	240	260	320	520F	U440F	U315F	275F	260	3
205H	220	225	225	240	270	325	U480F	F	U360F	U365F	U320F	4
220	215	215	225	235	260	305	U430F	F	F	285	240	5
215	210	220H	220	235	260	300	420	F	300	340	280	6
210H	215H	220	220	235	260	300	470	520	440	U420F	350	7
210H	210H	215	235	255	260	310	480	460	420	340	295	8
215H	215H	220	220	260	265	310H	450	460	380	F	300	9
220H	215H	220	225	240	260	315H	480	370	F	300	295	10
210	220	C	C	C	C	320	435	F	U260F	F	U320F	11
235	230	235	240	250	270	325	U480F	F	U395F	U305F	275	12
230	C	230	240	250	270	340	515	U325F	U325F	U335F	280	13
C	C	B	B	250	275	335	U470F	F	F	F	F	14
C	C	C	240	250	280	330	U450F	F	F	F	300	15
220	215	215	230	245	270	315	400	U445F	350	260	260	16
220	220	230	240	245	270	330	480F	U420F	U460F	320F	300	17
210	220H	B	225	245	265	325	F	U460F	U400F	F	300	18
220	210	200H	215	245	260	320	U505F	U375F	U300F	F	285	19
C	C	215H	220H	245	260	330	U480F	F	440	320	300	20
C	C	C	220	240	260	320	U440F	F	U360F	U340F	280F	21
200	U220B	220	235	240	260	320	U460F	U400F	F	U300F	U280F	22
215	220	220	225	240	260	340	500	U450F	U480F	U350F	U340F	23
220	210	220	230	240	260	320	U420F	U365F	U360F	285F	280	24
210	220	220	240	260	280	340H	320H	260H	240	240	250	25
220	220	225	230	240	265	330	400F	380F	330F	300	260	26
C	C	230	230	245	265	330	F	480F	340	325	270	27
C	C	220	225	250	270	345	425	420	390	300	260	28
205	205	220	230	240	270	350	500	500	410	360	330	29
215	215	220	230	245	270	340	400	320	270	270	260	30
215	215	220	230	245	265	325	470	U415	U360	320	290	Mean
215	215	220	225	245	265	320	465	U430	U360	320	285	Median
24	23	25	28	29	29	30	28	21	24	24	29	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km

Month : September 1958

TABLE 30—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	235	235	U230F	220	220	235	250	235	220	200H	200H	210
2	U255F	225	225	225	225	245	255	230	220	210	210	200
3	U260F	245	240	U230F	220F	230F	250	240	225	210H	210	220
4	300	260	220	260	300	325	260	245	230	205	B	210
5	U290F	U300F	U240F	U340F	U350F	370F	265	250	235	230	230	220
6	235	260	255	245	220	220	240	230	220	215	200H	200H
7	260	240	240	235	220	220	240	235	220	200H	205	B
8	330	280	225	225	240	270	260	240	220	215	220	205H
9	260	235	220	215	220	325	250	235	225	220	215	210H
10	270	235	235	220	210	240	250	235	220	200H	220	215H
11	265	245	230	230	225	240	255	240	230	230	225	220
12	255	230	235	235	220	230	255	240	220	220	225	235
13	245	230	230	240	235	255	260	240H	215H	230	220	230
14	240	230	245	235	245	U300F	250	240	215H	C	C	C
15	240	260	240	230	235	250	260	240	235	C	C	C
16	285	250	240	225	220	240F	250	235	220	210H	220	220
17	305	295	280	255	230	280	260	245	230	220	220	220
18	260	240	230	210	205	225	245	240	200H	B	220	215
19	235	240	245	245	225	225	245	230	225H	220	210	220
20	260	240	235	240	230	280	245	235	220	C	C	C
21	240	220	240	230	220	235	240	220H	C	C	C	C
22	225	220	220	220	215	230H	240	240	220	200	200	210
23	230	220	220	220	220	230H	250	240	220	210H	215	220
24	235	225	220	220	220	240	245	230	220	220	205H	200H
25	225	235	220	220	210	240H	250	240	225	210	210	210
26	240	245	250	235	230	290	260	250	235	230	220	220
27	235	220	235	240	220	225	245	240	220	220	C	C
28	235	240	240	240	225	230	260	240	235	C	C	C
29	260	240	240	230	235	240	250	235	225	210	205	205
30	240	240	235	235	225	240	255	235	220	215	210	215
Mean	255	245	235	235	230	255	250	240	225	215	215	215
Median	250	240	235	230	220	240	250	240	220	215	215	215
Count	30	30	30	30	30	30	30	30	29	24	23	22

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km

Month : September 1958

TABLE 30—Concl'd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
210	200	210	235	245	275	375	U490F	U370F	U480F	U300F	U280F	1
200H	225	230	230	250	285	380	F	U400F	U400F	U300F	U290F	2
205	215	215	U230B	250	280H	405	F	U410F	300F	260	270	3
205H	215	220	235	250	290	405	U505F	U400F	U350F	U370F	U340F	4
225	215	220	235	245	275	375	F	U315F	U300F	270	240	5
200H	230	225	225	245	275	360	440	F	260	310	265	6
215H	210H	220	220	240	280	380	500	510	500	310	360	7
205H	210	220	235	255	275	400	495	F	440	280	280	8
215H	220	220	240	250	280H	380H	F	F	F	280	290	9
205H	210H	220	230	250	280H	390	F	300	300	280	290	10
215	220	C	C	C	C	380	U440F	F	U295F	U290F	300	11
235	235	U250B	240	260	290	415	U390F	F	F	280	270	12
C	200	230	250	260	295	420	U440F	U330F	U420F	320	280	13
C	C	B	245	260	300	420	F	F	F	F	280	14
C	C	235	240	260	295	400	F	F	F	F	275	15
215	225	220	235	250	280	365	440	420	300	260	275	16
220	215	230	240	260	295	415	U480F	F	U400F	285	275	17
215	B	225	250	250	290	425	U450F	F	U340F	285	285	18
210	210	220	230	250	280	405	U420F	U375F	U240F	260	285	19
C	220H	230H	230	250	290	425	F	U490F	335	360	280F	20
C	C	220	220	240	280	420	U400F	U440F	U310F	U310F	260	21
210	U230B	225	235	250	280	400	U460F	F	U320F	U300F	285	22
220	220	230	240	250	290	450	U450F	U500F	U310F	U350F	280	23
215	215	220	230	250	280	410	U440F	U360F	300F	290F	260	24
210	A	U240A	240	260	300H	370H	300H	240	240	240	240	25
220	220	230	240	250	290	395	420F	340F	320	280	260	26
C	C	225	240	250	280	410	460F	410	325	320	260	27
C	C	220	240	260	300	420	420	380	360	280	245	28
210	220	220	235	255	295	440	500F	490	380	340	260	29
215	220	220	240	260	290	400	380	290	260	265	255	30
215	215	225	235	250	285	400	U440	390	340	295	275	Mean
215	220	220	235	250	285	400	U440	400	320	290	280	Median
23	23	28	29	29	29	30	22	20	26	28	30	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'E

TABLE 31

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								115	A	A	A	A
2								110	A	A	A	A
3								100	A	110	A	A
4								120	A	A	A	B
5								110	110	110	B	A
6								115H	115	A	A	A
7								..	A	A	A	A
8							120	115	A	A	A	A
9								115H	105	A	A	A
10								105	A	A	A	A
11								115	A	A	A	A
12								115	110	B	A	A
13								120	A	A	A	B
14								110	110	A	C	C
15								120	A	A	C	C
16								A	120	110	A	A
17								110	A	A	A	A
18								110	110	B	B	A
19								120	110	110	A	A
20								120	115	A	C	C
21								120	110	110	C	C
22								120	A	A	A	A
23								A	A	A	A	A
24								A	A	A	A	A
25								120	A	A	A	A
26								115	110	A	B	A
27								110	110	115	C	C
28								120	110	C	C	C
29								120	115	120	A	A
30								120	110	110	110	110
Mean							..	115	110	110	..	..
Median							..	115	110	110	..	..
Count							1	26	15	8	1	1

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : September 1958

TABLE 31—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	110	115	..							1
A	A	120	115	B	120							2
A	A	A	A	A	A							3
A	A	A	A	110	115							4
				A	A							5
A	A	A	A	115	A							6
A	A	A	A	A	A							7
A	A	105	A	105	..							8
A	A	A	A	A	A							9
		105	110	A	A							10
A	A	C	C	C	C							11
B	B	A	A	A	A							12
B	C	A	A	A	A							13
C	C	B	B	120	A							14
C	C	C	B	A	..							15
B	A	110	A	A	..							16
A	A	120	A	..	..							17
A	B	B	A	A	..							18
B	A	A	A	110	115							19
C	C	A	A	110	..							20
A	C	C	120	120	..							21
A	B	110	105	A	120							22
A	A	A	A	120	120							23
A	A	110	115	120	..							24
A	A	A	A	A	..							25
115	A	110	115	115	..							26
C	C	A	A	120	..							27
C	C	B	120	120	..							28
110	A	115	115	A	..							29
A	A	A	A	A	A							30
..	..	110	115	115	120							Mean
..	..	110	115	115	120							Median
2	..	9	9	13	5							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'E

TABLE 31—Contd.

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							115	110	A	A	A	A
2							120	105	A	A	A	A
3							120	110	A	A	A	A
4							120	110	A	A	B	A
5							120	110	105	110	A	A
6							115	A	105	A	A	A
7							..	B	A	A	A	B
8							115H	110	A	A	A	A
9							120H	110	A	A	A	A
10							115H	105	A	A	A	A
11							115	A	A	A	B	A
12							115	110	105	A	A	A
13							120	A	A	A	A	B
14							120	115	A	C	C	C
15							..	115	A	C	C	C
16							120	120	115	A	A	B
17							115	110	A	A	A	A
18							120	110	A	B	B	A
19							120	110	110	A	A	A
20							120	120	110	C	C	C
21							120	110	C	C	C	C
22							120	A	A	A	A	A
23							120	A	A	A	A	A
24							120	A	A	A	A	A
25							120	110	A	A	A	A
26							120	110	110	A	B	A
27							120	110	A	110	C	C
28							120	115	115	C	C	C
29							120	115	115	110	110	A
30							120	110	110	A	A	A
Mean							120	110	110	..	..	..
Median							120	110	110	..	..	..
Count							28	23	10	3	1	..

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : September 1958

TABLE 31—*Concl'd.*

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	105	110	120								1
A	120	110	A	120								2
A	A	A	B	A								3
A	A	A	110	120								4
A	A	A	A	A								5
A	A	A	A	105								6
A	A	A	A	A								7
A	A	105	A	A								8
A	A	110	115	A								9
A	A											10
A	A	C	C	C								11
B	B	B	A	A								12
C	B	B	A	A								13
C	C	B	A	120								14
C				A								15
A	A	A	110	A								16
A	120	S	B	..								17
B	B	A	A	..								18
A	A	A	A	A								19
C	A	A	115	115								20
C	C	120	120	120								21
A	B	110	A	120								22
A	A	A	115	120								23
A	A	110	120	120								24
115	A	A	B	A								25
A	120	A	115	115								26
C	C	A	B	A								27
C	C	A	120	..								28
A	110	110	A	A								29
110	A	A	115	A								30
..	..	110	115	120								Mean
..	..	110	115	120								Median
2	4	8	11	11								Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'Es

TABLE 32

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1							120	G	100	100	100	100
2								105	100	100	100	100
3	110							100	100	100	100	100
4	120	125					100	100	100	100	100	100
5		115						105	100	100	B	100
6		110						115	G	100	100	100
7						105		105	100	100	100	100
8							G	105	100	100	100	100
9								G	100	100	100	100
10	105							100	100	100	100	100
11								100	100	100	100	100
12								100	100	100	100	100
13	105						110	G	100	100	100	100
14								G	100	100	C	C
15								G	100	100	C	C
16								120	105	100	100	100
17								100	100	100	100	100
18		145						G	100	100	100	100
19	105	105	100					G	100	100	100	100
20								120	100	100	C	C
21								G	100	100	C	C
22								G	100	100	100	100
23							140	100	100	100	100	100
24								100	100	100	100	100
25								G	100	100	100	100
26								100	100	100	100	100
27								100	100	100	C	C
28								105	100	C	C	C
29								G	100	100	100	100
30								120	100	100	100	100
Mean	110	120						105	100	100	100	100
Median	105	115						100	100	100	100	100
Count	5	5	1			1	4	19	29	29	23	24

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'Es

TABLE 32—Contd.

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100	..							1
100	100	100	100	105	105							2
100	100	100	100	100	100							3
100	100	100	100	100	110							4
100	100	100	100	100	100							5
100	100	100	100	105	110							6
100	100	100	100	100	100							7
100	100	100	100	100	105							8
100	100	100	100	100	100							9
100	100	100	100	100	100				120		115	10
100	100	C	C	C	C						115	11
100	100	100	100	100	100						115	12
100	C	100	100	100	100						110	13
C	C	B	100	100	100							14
C	C	C	100	100	100							15
100	100	100	100	100	105						130	16
100	100	100	100	100	100							17
100	100	100	100	100	100						130	18
100	100	100	100	100	105							19
C	C	100	100	105	110					120		20
C	C	C	100	100	105							21
100	100	100	100	100	105							22
100	100	100	100	100	105						100	23
100	100	100	100	C	105							24
100	100	100	100	100	105							25
100	100	100	100	100	105							26
C	C	100	100	100	110							27
C	C	100	100	105	..							28
100	100	100	100	105	110							29
100	100	100	100	105	105							30
100	100	100	100	100	105						115	Mean
100	100	100	100	100	105						115	Median
24	23	26	29	28	27				1	1	7	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'Es

TABLE 32—Contd.

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	120						G	G	100	100	100	100
2							G	100	100	100	100	100
3							G	100	100	100	100	100
4							G	100	100	100	100	100
5							110	105	100	100	100	100
6							G	100	100	100	100	100
7								100	100	100	100	100
8					105		G	100	100	100	100	100
9							G	100	100	100	100	100
10							G	100	100	100	100	100
11							G	100	100	100	100	100
12			100				G	100	100	100	100	100
13							G	100	100	100	100	100
14							G	100	100	C	C	C
15								100	100	C	C	C
16							G	G	100	100	100	100
17	130						G	100	100	100	100	100
18	125						G	100	100	100	100	100
19	105						G	G	100	100	100	100
20	100						G	105	100	C	C	C
21							G	100	C	C	C	C
22							G	100	100	100	100	100
23							G	100	100	100	100	100
24							G	100	100	100	100	100
25							G	100	100	100	100	100
26							G	100	100	100	100	100
27							G	100	100	100	C	C
28							105	100	100	C	C	C
29							G	100	100	100	100	100
30							G	G	100	100	100	100
Mean	115		..	..	..		..	100	100	100	100	100
Median	120				..		..	100	100	100	100	100
Count	5		1	..	1		2	26	29	25	24	24

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : September 1958

TABLE 32—*Concl'd.*

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	100								1
100	100	100	105	105								2
100	100	100	B	100	100						110	3
100	100	100	100	105								4
100	100	100	100	100	100				125			5
100	100	100	100	105								6
100	100	100	100	105								7
100	100	100	100	100								8
100	100	100	100	100	100							9
100	100	100	G	100							115	10
100	100	C	C	C	C							
100	100	100	100	100	100			135	120		100	11
C	100	100	100	100	100						105	12
C	C	B	100	100	100							13
C	C	100	100	100	100					120		14
												15
100	100	100	100	105								16
100	100	100	100	105	S						130	17
100	100	100	100	100								18
100	100	100	100	105								19
C	100	100	100	105					120		120	20
									125	125		
C	C	100	G	100								21
100	100	100	100	100								22
100	100	100	100	100							100	23
100	100	100	100	100								24
100	100	100	100	100								25
100	100	100	100	105								26
C	C	100	100	105								27
C	C	100	100	110								28
100	100	100	100	110								29
100	100	100	100	105							110	30
100	100	100	100	105	100			..	..	..	110	Mean
100	100	100	100	100	100			..	..	..	110	Median
23	25	28	26	29	6			1	4	2	8	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : (M3000) F2

TABLE 33
Ionospheric Data

Latitude : 10.2° N

Unit : minutes

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2'95	2'85	F	U3'25F	U3'30F	3'25	3'00	2'90	2'60	2'20	2'10	2'00
2	F	F	F	F	3'10	3'25F	2'95	2'85	2'45	2'20	2'15	2'15
3	F	U3'10F	U3'05F	U3'10F	F	F	3'00F	2'80	2'55	2'15	2'05	2'05
4	2'85	2'75	2'90	2'95	2'80	2'75	2'60	2'65	2'40	2'20	2'15	2'15
5	U2'75F	F	U2'80F	F	F	F	2'65F	2'50	2'20	2'20	2'25	2'20
6	2'90	2'80	2'75	2'60	2'85	3'30	3'10	3'05	2'90	2'70	2'40	U2'25F
7	F	F	2'80F	F	C	3'20F	3'10	3'00	2'55	2'15	2'15	2'10
8	F	F	F	F	2'95F	2'85	2'70	2'65	2'45	2'25	2'10	2'10
9	F	U2'90S	F	F	3'25	2'85	2'65	2'80	2'55	2'20	2'20	2'10
10	2'65	U2'80F	2'95	2'90	3'25	3'00H	2'90	2'70	2'35	2'20	2'25	2'15
11	F	2'75	2'90	3'00	3'10	3'10	2'90	2'85	2'50	2'15	2'10	2'10
12	F	2'90	U2'95FS	2'90	3'10	3'20	2'90	2'80	2'45	2'15	2'05	2'00
13	F	F	F	3'20	3'15	3'15	2'85	2'85	2'45	2'15	2'10	2'00
14	F	F	3'15	F	F	F	U2'85S	2'80	2'45	2'10	C	C
15	U2'85R	U2'80F	F	U3'00F	F	F	2'95	2'85	2'50	2'15	C	C
16	F	F	2'85F	F	F	F	F	2'85	2'55	2'20	2'10	2'15
17	U2'70S	U2'60S	2'55	2'70	J2'90S	J2'85F	2'80	2'65	2'45	2'10	2'15	2'05
18	2'75	2'85	F	3'15	3'30	3'45	2'95	2'95	2'60	J2'50R	2'20	2'20
19	2'85F	2'90	F	3'05F	F	F	F	3'05	2'75	2'50	2'10	2'10
20	F	J3'05S	F	3'15	F	F	2'95	2'95	2'60	2'20	C	C
21	U2'85F	F	2'95	U3'10F	3'20	F	3'05	2'95	2'60	2'15	C	C
22	F	F	U3'15F	F	U3'25F	3'55	2'95	3'00	2'65	U2'15R	2'20	2'20
23	F	U3'05F	F	3'15	F	3'30	2'95	2'35	2'40	2'25	2'20	2'15
24	2'70	J2'75S	F	F	F	F	U3'20FS	2'90F	2'45	2'20	2'25	2'15
25	U3'00S	F	F	3'10	F	3'30	3'00	3'00	2'65	2'20	2'10	2'25
26	2'90	2'95	2'75	2'90	3'20	3'05	2'70	2'70	2'35	2'40	2'30	2'15
27	U2'65F	U2'80S	2'90	U2'90S	3'00	3'15	3'05	2'75	2'45	2'35	C	C
28	F	F	F	3'10	3'10	F	3'00	2'70	2'35	C	C	C
29	F	F	F	F	3'20	F	3'00	2'90	2'65	2'20	2'20	2'25
30	F	F	F	2'90	3'05	3'15	3'00	3'00	2'75	2'40	2'05H	2'15
Mean	2'80	U2'85	2'90	3'00	3'10	3'15	2'90	2'80	2'50	2'25	2'15	2'15
Median	2'85	U2'85	2'90	3'00	3'10	3'15	2'95	2'85	2'50	2'20	2'15	2'15
Count	14	17	15	20	19	19	28	30	30	29	24	24

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : (M3000) F2

TABLE 33 *Contd.*

Latitude : 10.2° N

Unit :

Ionospheric Data

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
2'05	2'05	2.00	2'05	2'10	U2'10S	2'10	U2'00F	F	F	F	F	1
2'10	2'10	2.15	2'15	2'15	2'10H	2'00H	F	F	F	F	F	2
2'00	2'05	2.00	2'00	2'05	2'20	2'15H	1'95F	F	U2'15F	2'65	2'85	3
2'15	2'15	2.05	2'05	2'00	2'05	1'90	UU2'00F	F	F	F	F	4
2'10	2'05	2.00	2'05	2'05	U2'15S	2'10	U2'05S	U2'05F	F	2'40	2'60	5
U2'05R	2'05	2.00	2'00	2'05	U2'15S	U2'05S	2'00	F	F	F	F	6
2'10	2'10	2.10	2'10	2'10	2'10	U2'00S	U1'90W	F	F	F	F	7
2'05	2'05	2.05	2'05	2'20	2'25	2'15	1'90	F	F	F	U2'50F	8
2'10	2'15	2.15	2'20	2'25	2'25	U2'15S	F	F	F	F	2'45	9
2'10	2'05	2.10	2'15	2'20	2'20	2'20	F	F	F	F	F	10
2'10	2'05	C	C	C	C	2'05	1'95	F	F	F	F	11
2'00	2'00	2.05	2'10	2'20	U2'30S	2'05	FS	F	FS	F	U2'80S	12
1'95	C	1.95	1'90	1'95	2'00	1'95	F	F	F	F	F	13
C	C	B	2'10	2'10	2'10	S	F	F	F	F	F	14
C	C	C	2'00	2'00	U2'05S	U2'00S	U1'95S	F	F	F	F	15
2'10	2'00	1.95	1'95	2.00	2'15	J2'15S	2'10	2'00	2'15	2'55	2'85	16
2'10	2'05	J2'10R	2'10	2'15	2'20H	2'05H	1'90H	F	F	F	U2'65F	17
2'10	2'15	2.10	2'20	2'20	2'20	Rs	1'90	F	F	F	F	18
2'10	2'05	2.05	J2'05R	2'05	2'05	U2'00S	F	F	F	F	F	19
C	C	2.15	2'15	2'15	2'10	S	U1'85F	F	F	U2'30S	F	20
C	C	C	2'30	2'30	2'30	2'10	U2'00F	F	F	F	F	21
2'15	2'20	2.25	2'25	2'25	U2'30S	2'10	F	F	F	F	F	22
2'10	2'10	2.15	2'15	2'15	2'05	U2'05R	F	F	F	F	F	23
2'15	2'10	2.15	2'20	2'30	J2'35R	U2'20S	U2'00F	F	F	F	F	24
2'15	2'20	2.20	2'20	U2'20S	U2'10R	U2'00HS	U2'00HS	2'20H	2'60	2'80	2'80	25
2'15	2'10	2'15	2'20	2'10	2'05	U1'95SW	U2'05S	F	F	F	F	26
C	C	U2'20R	U2'05R	2'05	2'05	2'05	U1'90W	F	F	F	F	27
C	C	2'15	2'15	2'15	2'10	U1'90W	U1'80WH	1'85H	F	F	F	28
2'25	2'15	2'15	2'15	2'15	2'15	U2'00S	F	F	F	F	F	29
2'15	2'10	2'10	2'10	2'10	2'10	U2'00R	U2'00S	2'20	2'45	2'65	2'85	30
2'10	2'10	2'10	2'10	2'15	2'15	2'05	U1'95	2'05	..	U2'55	2'70	Mean
2'10	2'05	2'10	2'10	2'15	2'10	2'05	U2'00	2'05	..	U2'60	2'80	Median
24	23	26	29	29	29	27	20	5	4	6	9	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : (M3000) F2

TABLE 33 (Contd.)

Latitude : 10.2° N

Unit :

Ionospheric Data

Longitude : 77.5° E

Month : September 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.90	2.90	F	3.20	3.20	2.80	2.90	2.75	2.40	2.15	2.05	2.00
2	F	U3.20F	F	U3.05F	3.15	2.90	2.95	2.65	2.35	2.30	2.15	2.10
3	F	U3.05F	F	F	F	F	3.00	2.65	2.30	2.00	2.05	2.00
4	2.75	2.75	3.00	U2.85s	2.70	2.70	2.65	2.55	2.30	2.20	2.15	2.20
5	F	F	F	F	F	F	2.60	2.35	2.15	2.15	2.25	2.15
6	U2.90s	2.75	2.70	2.70	3.10	2.90	3.15	3.00	2.80	2.55	2.30	U2.05R
7	F	F	2.85	F	3.15F	3.35	3.05	2.80	2.35	2.10	2.05	2.10
8	F	F	F	F	2.90F	2.70	2.70	2.50	2.35	2.20	2.15	2.05
9	F	2.95	F	3.10F	3.25	2.70	2.70	2.70	2.35	2.10	2.15	2.10
10	F	2.95	2.90	3.00	3.25	3.00	2.85	2.55	2.25	2.15	2.20	2.10
11	U2.70s	2.90	F	3.10	3.20	2.80	2.85	2.65	2.30	2.05	2.15	2.10
12	F	2.90	FS	Fs	3.30	2.90	2.90	2.60	2.30	2.10	2.05	2.05
13	F	F	3.30	U3.00F	3.10	2.70	2.90	2.75	2.30	2.05	2.05	2.00
14	F	U3.20F	F	F	U3.25F	U2.75F	U2.90s	2.65	2.25	C	C	C
15	2.75	F	U2.90F	F	F	U2.85F	U2.95s	2.65	2.35	C	C	C
16	F	2.80F	2.95V	F	F	F	U2.95F	2.65	2.40	U2.00R	2.20	2.10
17	2.65	2.60	2.60	2.85	3.00	2.80	2.70	2.55	2.25	2.10	2.10	2.05
18	2.80	F	U3.00s	3.30	3.25	2.60	3.00	2.80	2.55	2.30	2.20	2.20
19	J2.85R	U3.00F	F	F	U3.10F	F	3.15	2.90	2.65	2.25	2.10	2.15
20	U3.05R	F	3.05	3.30	F	2.55H	U3.00s	2.75	2.40	C	C	C
21	U2.75s	2.95	F	U3.20F	F	F	U3.00s	2.85	C	C	C	C
22	U3.05s	F	F	F	3.20	2.60H	U3.05s	2.85	2.40	U2.10R	2.20	2.20
23	U3.00F	U3.00F	F	3.25	F	2.60H	U3.00s	U2.70s	2.30	2.20	2.20	2.10
24	J2.75R	F	F	F	F	U3.25F	U3.00F	2.65	2.25	2.25	U2.25s	2.15
25	U2.95s	U3.15sF	3.15F	F	U3.30s	2.70H	3.05	2.80	2.40	U2.05R	2.35	2.20
26	3.00	2.90	2.85	3.10	3.05	2.70	2.75	2.50	2.30	2.35	2.20H	2.15
27	U2.85s	2.85	U3.00s	F	3.05	3.15	2.90	2.60	2.35	2.30	C	C
28	3.05	F	F	3.00	F	3.10	2.85	2.45	2.30	C	C	C
29	F	U2.80F	F	3.00	3.20	3.00	3.00	2.80	2.40	2.10	2.20	2.25
30	F	F	F	3.00	3.10	3.00	3.05	2.85	2.60	U2.25R	2.15	2.15
Mean	2.85	2.95	2.95	3.10	3.15	2.85	2.90	2.70	2.35	2.15	2.15	2.10
Median	2.85	2.90	2.95	3.05	3.15	2.80	2.95	2.65	2.35	2.15	2.15	2.10
Count	17	19	13	17	21	25	30	30	29	25	24	24

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : (M3000) F2

Unit :

Month : September 1958

TABLE 33 (Contd.)

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2'05	2'05	2'05	2'10	2'10	2'05	2'05	U1'90F	F	F	U2'45F	F	1
2'10	2'15	2'15	2'15	2'15H	2'05H	U1'95SH	F	F	F	F	F	2
2'00	2'00	2'00	2'00	2'15	2'20	2'10	F	F	U2'45F	2'75	2'85	3
2'15	2'10	2'05	2'05	2'00	2'00	U1'95S	F	F	F	F	F	4
2'15	2'05	2'00	2'05	2'05	2'15	2'00	U1'95F	U2'10F	U2'35F	U2'45S	2'80	5
U2'10R	2'00	2'00	2'05	2'10	2'10	2'00	F	F	F	F	2'80	6
2'05	2'10	2'10	2'10	2'10	U2'00S	U1'90S	F	F	F	F	F	7
2'05	2'05	2'05	U2'15R	2'20	2'25	2'05	F	F	F	F	U2'75F	8
2'10	2'10	2'20	2'20	2'25	2'25	2'05	F	F	F	F	2'65	9
2'10	2'10	2'10	2'20	2'20	2'15	2'00	F	F	F	F	F	10
2'10	2'05	C	C	C	C	2'00	F	F	F	F	F	11
2'00	2'00	2'10	2'20	2'25	2'15	S	F	F	F	U2'75S	U2'80S	12
C	1'95	1'95	2'00	2'00	2'00	U1'85W	F	F	F	F	F	13
C	C	2'05	2'10	2'10	2'05	U1'90S	F	F	F	F	F	14
C	C	2'00	2'00	U2'05S	U2'05S	U1'90S	F	F	F	F	F	15
2'05	2'00	2'00	2'00	2'10	2'15	2'15	2'00	U2'10S	U2'30F	2'70	2'80	16
2'05	2'10	2'10	2'15	2'20H	2'15H	J2'00SH	F	F	F	2'45	F	17
2'15	2'10	2'15	2'20	2'20	2'15	S	F	F	F	U2'60F	F	18
2'10	2'05	2'05	2'05	2'05	2'10	2'05	F	F	F	F	F	19
C	2'15	2'15	2'15	2'10	J2'10S	1'90	2'00	F	F	F	F	20
C	C	2'30	2'35	2'35	U2'25R	U2'00S	F	F	F	F	F	21
2'15	2'15	2'25	U2'30R	2'30	U2'25S	U2'05S	F	F	F	F	F	22
2'10	2'15	2'15	2'20	U2'15R	U2'05S	U1'95W	F	F	F	F	F	23
2'10	2'10	2'15	2'30	U2'35S	U2'30S	U2'10S	F	F	F	F	F	24
2'15	2'20	2'25	2'20	2'15	2'00H	U1'95SH	U2'05SH	U2'35S	2'70	2'90	2'80	25
2'10	2'15	2'20	2'15	2'10	U2'00R	W	F	F	U2'25F	F	F	26
C	C	2'10	2'05	U2'05R	2'05	1'90	F	F	F	F	F	27
C	C	2'15	2'10	U2'10R	U2'00S	U1'80W	F	F	F	F	F	28
2'15	2'15	2'15	2'15	2'15	2'10	U1'90W	F	F	F	F	F	29
2'10	2'15	2'10	2'15	2'10	2'05	U1'95S	U2'10S	2'35	2'60	2'75	2'90	30
2'10	2'10	2'10	2'15	2'15	2'10	1'90	2'00	..	U2'45	2'65	2'80	Mean
2'10	2'10	2'10	2'15	2'10	2'10	2'00	2'00	..	U2'40	2'70	2'80	Median
23	25	29	29	29	29	28	6	4	6	9	9	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : October 1958

TABLE 34

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	13'3	13'1	12'8	13'1	UI1'5S	11'1	UI1'7S	13'3	UI4'1R	13'8	13'0	12'2
2	UI2'9F	F	10'9	9'3	F	F	8'0F	11'8	13'6	UI4'2R	13'8	12'9
3	F	F	U8'1F	U7'7F	F	7'2	9'2	12'4	14'0	14'8	UI3'5R	UI2'4R
4	UI1'7S	UI1'3S	UI1'9S	UI1'9S	11'4	10'1	9'5	12'0	13'6	UI4'3R	C	C
5	F	F	S	9'3	9'2	6'8	7'9	11'4	13'6	UI4'2R	C	C
6	UI1'9S	11'4F	10'4F	10'8	F	10'4F	11'8	12'8	14'6	14'6	12'8	11'9
7	UI1'9S	UI1'6S	C	C	C	C	C	C	C	C	C	C
8	F	F	11'5	11'0	U9'7F	8'4	UI0'1S	12'2	13'2	13'4	12'8	12'8
9	F	F	F	9'3	8'7	6'3	8'1	11'4	12'4	12'5	12'4	12'4
10	UI1'4F	J9'8F	U9'2F	9'1	8'4F	6'1F	F	11'5	13'3	13'2	12'3	C
11	UI1'0F	10'6	F	F	6'7	4'3	7'9	11'5	13'1	13'0	C	C
12	UI0'6F	F	U8'3F	F	F	U5'3F	U7'9F	UI1'6S	12'8	12'5	C	C
13	F	F	8'6F	F	F	F	U8'0F	UI1'5F	13'8	14'3	12'2	11'4
14	F	UI1'4F	U9'9F	F	7'8	5'6	7'8	11'2	13'2	13'6	11'7	10'8
15	F	UI1'2F	U9'7F	U8'1F	F	5'5	7'9	11'1	12'7	12'1	11'5	11'3
16	FS	UI1'4S	UI0'4S	10'6	8'1	F	U7'8F	11'2	13'3	14'2	12'4	11'5
17	FS	F	FS	U9'1FS	U7'7FS	F	U8'1F	UI1'7S	13'9	14'4	12'9	12'8
18	F	10'7	FS	9'0	FS	F	U8'5F	12'2	13'9	14'6	13'8	11'8
19	FS	F	FS	U9'3S	8'5	6'0	8'3	UI1'6S	13'6	14'2	13'8	12'6
20	FS	F	F	F	FI	7'7	U9'8S	13'2	14'9	15'7	16'0	UI5'5R
21	F	FS	F	F	F	U6'0F	8'3	11'4	13'0	13'5	13'9	14'1
22	F	F	UI0'8F	F	9'6	7'9	9'5	12'7	14'7	14'8	14'8	12'9
23	UI3'4S	12'8	13'0	13'0	12'6	11'0	11'0H	11'1	12'5	UI3'0R	14'0	14'5
24	12'0	11'4	10'9	11'0	10'6	U9'6S	11'0	14'0	15'4	16'0	16'0	16'4
25	11'1	9'6	U9'1S	8'9	8'8	J8'1R	U7'0S	10'8	12'3	13'4	13'8	13'1
26	F	F	U9'6S	F	U7'8F	6'2	7'9	J12'0S	13'4	13'8	13'0	12'2
27	F	UI1'5F	10'1	F	8'3	8'4	10'2	12'8	14'7	15'3	15'5	16'0
28	UI1'6F	F	13'0	12'0	13'0	UI2'8R	13'2H	13'8H	13'1	13'8	13'8	13'4
29	13'7	13'8	12'7	12'3	12'4	12'6	12'1	13'7	15'5	15'8H	C	C
30	U9'0F	U9'7F	10'3	U9'7S	U9'1S	8'2	U9'1S	12'7	14'2	UI4'4R	13'6	12'8
31	UI0'6F	11'8	11'8	9'9	7'4	6'3	8'7	12'0	14'1	14'9	13'8	13'4
Mean	UI1'7	11'4	10'6	10'2	9'4	7'9	9'2	12'1	13'7	14'1	13'4	13'0
Median	UI1'7	11'4	10'4	9'7	8'8	7'7	8'5	12'0	13'6	14'2	13'5	12'8
Count	15	17	22	21	21	25	29	30	30	30	25	24

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : October 1958

TABLE 34

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11'7	12'3	12'9	13'1	UI3'OR	12'5	UI1'6s	U9'8F	F	F	F	F	1
12'5	12'5	12'7	UI2'5R	UI2'4R	12'3	UI1'8s	F	F	F	F	F	2
12'3	12'2	12'8	12'7	12'4	UI1'8s	UI1'4F	U9'6F	F	U9'3F	U9'7s	10'7	3
C	C	C	C	UI1'9s	11'3	S	U8'6F	F	F	F	UI0'9F	4
C	C	C	C	C	UI1'4R	10'4	D8'5W	F	F	UI0'1F	F	5
11'8	12'0	12'7	12'7	12'8	12'5	UI1'6s	9'0	9'4	11'1	UI1'5s	UI1'5s	6
10'9	11'8	12'6	13'2	13'4	12'9	UI1'6s	F	F	UI1'3F	UI0'4F	UI1'2F	7
12'0	12'3	12'7	13'5	13'6	13'4	12'5	F	F	F	F	F	8
12'6	12'9	13'6	13'8	14'2	J13'6R	UI2'2R	F	F	F	F	F	9
C	C	C	12'6	12'9	13'2	UI1'6s	F	F	F	F	F	10
C	C	C	C	C	C	C	C	F	F	F	F	11
C	C	C	C	C	C	10'8	F	F	F	F	F	12
11'6	12'1	12'7	13'3	14'1	14'0H	12'8	F	F	UI1'5F	F	F	13
10'5	10'7	11'1	11'8	12'6	12'9	12'6	11'0	F	F	F	F	14
11'1	10'9	11'3	11'8	12'3	12'3	UI1'5s	F	F	F	F	UI1'6F	15
C	12'4	12'6	12'5	UI1'8s	UI1'5s	UI0'5s	D8'4W	F	F	F	F	16
12'8	12'7	12'7	12'4	UI1'7s	11'0	UI0'0s	U8'2s	U8'7F	F	FS	F	17
11'5	11'4	11'5	11'3	11'0	UI0'6s	U9'7s	F	F	F	F	F	18
C	12'7	13'0	12'8	12'5	UI2'0s	UI0'9s	U8'3F	F	F	F	F	19
15'0	14'0	13'5	12'9	12'5	UI2'0s	UI0'1s	D7'7W	F	F	F	U9'1F	20
13'8	13'2	12'8	12'7	J12'2s	UI1'8s	10'7	D8'3W	F	F	U9'2Fs	F	21
UI3'OR	13'2	13'6	14'3	13'8	12'8H	UI2'0SH	UI1'2WH	RS	12'5H	12'8	13'6	22
14'8	15'2	UI5'2s	UI5'2s	14'6	UI3'6R	12'0H	UI2'0WH	RH	RH	UI3'OR	UI3'4s	23
15'8	14'5	13'9	UI2'8s	13'2	12'6	J13'2R	UI3'OR	UI5'2s	14'5	13'8	12'6	24
13'4	13'8	13'7	13'6	UI3'OR	UI1'5s	J10'4s	F	F	F	F	F	25
12'4	12'4	12'7	13'2	13'7	UI3'4R	S	F	F	F	F	F	26
15'8	14'9	14'6	14'6	14'3	14'0	12'8	10'3	F	U9'1F	F	UI0'5F	27
13'3	13'2	13'3	13'3	13'2	13'0	UI1'8s	11'6	12'8	UI3'OR	13'3	13'6	28
C	C	13'6	13'6	12'7	11'7	10'9	9'0	U9'3F	F	F	9'2	29
12'5	12'0	11'8	11'8	11'5	10'6	9'7	8'4F	8'8	9'6	10'9	10'4F	30
13'2	13'0	12'8	12'8	12'4	11'6	10'6	8'6W	8'9	F	UI0'2s	F	31
12'8	12'7	12'9	13'0	12'8	12'3	UI1'3	U9'6	10'4	UI1'3	UI1'4	UI1'4	Mean
12'5	12'5	12'8	12'8	12'8	12'3	UI1'6	U9'6	9'3	UI1'3	UI0'9	UI1'2	Median
23	25	26	27	28	29	28	15	7	9	11	13	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : October 1958

TABLE 34—(Contd.)

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	13.3	13.0	13.0	12.7	11.0	11.1	12.6	13.9	UI4.0R	13.5	12.6	11.9
2	F	F	10.3	8.5	F	F	10.1	13.1	14.1	UI4.1R	13.2	12.7
3	F	F	F	F	F	7.3	10.9	13.3	14.7	14.5	12.7	UI2.2R
4	UI1.4S	UI1.7S	UI1.9S	UI1.8S	11.0	9.2	10.9	12.9	14.1	C	C	C
5	U9.5F	9.0	U9.4S	U9.2F	9.0	5.4	9.9	12.7	14.1	C	C	C
6	10.8F	F	10.6	10.8	F	11.0	12.4	13.8	14.8	UI4.2R	12.3	11.8
7	J12.1S	C	C	C	C	C	C	C	C	C	C	C
8	UI1.4S	11.4	11.2	10.6	9.0	8.4	11.2	12.8	13.4	13.3	12.8	12.5
9	F	11.0	F	9.0	7.7	5.9	10.0	12.2	12.6	12.4	12.5	12.9
10	F	F	9.2	F	7.6	F	J9.8F	12.5	13.4	12.5	C	C
11	F	9.5	8.6	7.6	5.9	5.2	10.1	12.5	13.6	12.7	C	C
12	UI0.0F	F	U8.1F	F	U6.1F	U5.6F	10.5	12.5	12.7	11.9	C	C
13	UI0.2F	F	8.0	F	F	F	UI0.2F	13.1F	14.3	13.2	11.7	11.0
14	F	F	U8.8F	U7.8F	7.2	6.0H	10.1	12.5	13.7	12.8	10.9	10
15	UI1.3F	F	F	U7.7F	6.5	5.3H	9.6	12.0	12.9	11.7	11.3	11.0
16	FS	FS	FS	U9.9S	F	F	10.0	UI2.1F	14.0	13.8	11.7	5
17	F	UI0.4F	F	8.8	FS	F	13.2	13.2	14.3	13.7	12.6	J12.3
18	FS	F	U9.3S	FS	F	U6.6F	UI0.7S	13.1	14.6	14.4	12.7	11.6
19	F	F	F	FS	7.4	6.1	UI0.1S	12.7	14.1	14.0	UI3.0R	12.2
20	F	U8.8F	8.3	F	F	8.1	11.6	14.1	15.6	UI5.9R	16.0	15.7
21	F	F	F	F	F	U6.2F	UI0.2F	12.3	13.3	13.8	14.1	13.4
22	UI1.0F	UI0.6F	F	U9.8S	U9.2S	7.6	11.0	14.0	15.0	14.6	13.7	12
23	12.8	12.8	13.0	13.0	UI1.9S	11.2H	U9.4S	12.0	12.9	13.6	14.2	14.2C
24	11.5	11.0	11.0	11.0	UI0.2S	U9.5S	12.4	15.0	15.6	16.2	16.2	16.9R
25	10.4	U9.0S	U9.2S	9.2	8.4	RH	U9.2S	UI1.5S	12.9	13.4	13.0	13
26	F	F	10.2	F	F	5.8	UI0.2S	12.6	14.0	13.4	12.7	UI2.8
27	11.8	F	9.6	F	8.2	8.8	11.7	13.9	15.0	15.3	15.8	15.2
28	FS	FS	12.4	12.2	13.3	12.8	13.7H	RH	13.8	13.8	13.4	13.4
29	14.0	12.8	12.7	12.0	13.0	11.7	13.0	15.2	15.6H	C	C	C
30	U9.2F	9.8F	10.1	U9.1S	8.8	7.7	11.3	14.0	14.4	UI3.8R	13.2	12.7
31	11.3	12.1	10.8	8.8	6.6	6.5	10.4	13.2	14.8	14.7	13.4	13.3
Mean	11.3	10.9	10.3	10.0	8.9	7.9	10.8	13.1	14.1	13.7	13.2	12.9
Median	11.3	11.0	10.2	9.5	8.6	7.4	10.3	12.9	14.1	13.8	12.9	12.5
Count	17	15	22	20	20	24	30	29	30	27	24	23

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foF2

Unit : Mc

Month : October 1958

TABLE 34—(Contd.)

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11.8	12.7	13.0	13.1	12.8	U11.8s	U10.9R	F	F	F	F	F	1
12.3	12.6	12.5	12.3	12.5	U12.4s	U11.0R	F	F	F	F	F	2
12.2	12.5	12.7	12.7	U12.3R	U11.7s	U10.4F	U9.4F	U9.4s	9.8	U10.2s	11.3	3
C	C	C	C	11.6	U11.9R	U9.4s	F	F	F	U9.8s	F	4
C	C	C	C	U11.6R	11.0	U9.5s	F	F	F	F	F	5
11.9	12.4	12.6	12.8	12.7	U12.3R	10.8	U9.0F	10.1	U11.6s	U11.6s	J11.8s	6
11.4	12.3	12.8	U12.9R	13.3	12.6	10.8	F	F	FS	F	F	7
11.9	12.6	U12.9R	13.7	13.6	13.0	F	F	F	F	F	F	8
12.8	13.2	13.7	14.0	13.8	12.8	F	F	F	F	F	F	9
C	C	C	12.8	U12.6R	U12.6R	10.6F	F	F	F	F	F	10
C	C	C	C	C	C	C	F	F	F	F	U10.6F	11
C	C	C	C	C	11.6	U9.0F	F	F	F	F	F	12
11.9	12.4	13.1	13.9	14.2H	13.6	U11.8F	F	F	F	U11.5F	F	13
10.6	10.8	11.5	12.1	12.8H	12.8	11.8	F	F	F	F	F	14
10.9	11.0	11.7	12.1	12.5	J12.2R	U9.8s	F	F	F	F	U11.5s	15
11.8	C	12.6	12.1	U11.7s	U11.2s	U9.4s	F	F	F	U11.7s	FS	16
12.8	12.7	12.6	12.1	11.5	10.7	U9.3s	8.4	F	F	F	FS	17
11.4	11.5	11.4	11.3	10.8	U10.3s	D8.7W	F	F	F	U8.7F	U9.1Fs	18
12.4	12.9	13.0	12.7	12.3	U11.4s	D9.3W	F	F	F	F	FS	19
14.4	13.9	13.3	12.6	12.5	U11.4s	D8.8W	F	F	F	F	F	20
13.6	13.1	12.8	12.6	J12.2s	U11.4s	D9.5W	F	F	F	F	F	21
13.1	13.4	13.8	14.0	U13.0RH	J12.0RH	U11.3WH	U11.8WH	RS	12.7	U13.0R	U13.6s	22
15.0	15.2	U15.0s	14.8	U14.2s	J12.2RH	U11.4WH	U12.0RH	RH	U12.6R	RS	12.8	23
15.6	14.0	13.2	12.8	13.0	12.8	J13.3R	13.8	U15.4s	13.6	13.4	U11.5s	24
13.8	13.7	13.9	13.6	U12.8R	11.4	U9.7s	F	F	F	F	F	25
12.4	12.6	12.8	13.4	13.5	U13.0R	U10.8F	F	F	F	F	F	26
15.4	14.7	14.6	14.3	14.2	U13.3R	11.4	9.8	F	F	U11.4F	F	27
13.2	13.2	13.3	13.0	13.2	12.6	11.5	11.8	13.0	13.6	13.5	13.6	28
C	C	13.6	13.0	12.1	11.1	9.6	F	F	F	U9.0F	F	29
12.1	11.7	11.8	11.6	11.1	10.5	9.2	8.8F	8.9F	10.4	10.7	10.7	30
13.0	12.9	12.8	12.7	12.3	11.3	9.4W	F	9.2	F	F	F	31
12.7	12.8	13.0	12.9	12.6	11.9	U10.3	10.5	11.0	12.0	U11.2	U11.6	Mean
12.4	12.7	12.8	12.8	12.6	11.9	U10.7	9.8	9.8	12.6	U11.4	U11.5	Median
25	24	26	27	29	30	24	9	6	7	12	10	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : foF1

TABLE 35

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Mean							
Median							
Count							

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foF1

Unit : Mc

Month : October 1958

TABLE 35
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L	L							1
L	L	L	L	L	L							2
L	L	L	L	L	L							3
C	C	C	C	C	L							4
C	C	C	C	C	L							5
L	L	L	L	L	..							6
L	L	L	L	L	..							7
L	L	L	L	L	..							8
C	C	C	L	L	L							9
C	C	C	L	L	..							10
C	C	C	C	C	C							11
L	L	L	C	L	..							12
L	L	L	A	L	..							13
L	L	L	L	L	..							14
C	L	L	L	L	..							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	L							18
L	L	L	L	L	..							19
L	L	L	L	L	..							20
L	L	L	L	L	..							21
L	L	L	L	L	..							22
L	L	L	L	L	..							23
L	L	L	L	L	..							24
L	L	L	L	L	..							25
L	L	L	L	L	..							26
L	L	L	L	L	..							27
L	L	L	L	L	..							28
L	L	L	L	L	..							29
L	L	L	L	L	..							30
L	LH	L	L	L	..							31
..	..	..	..	..	..							Mean
..	..	..	..	..	..							Median
..	..	..	..	..	..							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foF1

TABLE 35—(Contd.)

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							..	L	L	L	L	L
2							..	L	L	L	L	L
3							..	L	L	L	L	L
4							..	L	L	C	C	C
5							..	L	L	C	C	C
6							..	L	L	L	L	L
7							..	L	L	L	L	L
8							..	L	L	L	L	L
9							..	L	L	L	L	L
10							..	L	L	L	L	L
11							..	L	L	L	L	L
12							..	L	L	L	L	L
13							..	L	L	L	L	L
14							..	L	L	L	L	L
15							..	L	L	L	L	L
16							..	L	L	L	L	L
17							..	L	L	L	L	L
18							..	L	L	L	L	L
19							..	L	L	L	L	L
20							..	L	L	L	L	L
21							..	L	L	L	L	L
22							..	L	L	L	L	L
23							..	L	L	L	L	L
24							..	L	L	L	L	L
25							..	L	L	L	L	L
26							..	L	L	L	L	L
27							..	L	L	L	L	L
28							..	L	L	L	L	L
29							..	L	L	L	L	L
30							..	L	L	L	L	L
31							L	L	L	L	L	L
Mean						
Median						
Count						

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F1
Unit : Mc
Month : October 1958

TABLE 35—(Contd.)
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N
Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L L L C C	L L L C C	L L L C C	L L L C C	L L L L L								1
L L L L C	L L L L C	L L L L C	L L L L L	L L L L L								2
C C L L L	C C L L L	C C L L L	C C L L L	C C L L L								3
L L L B L	C L L L L	L L L L L	L L L L L	L L L L L								4
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								5
L L L C L	L L L C L	L L L L L	L L L L L	L L L L L								6
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								7
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								8
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								9
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								10
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								11
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								12
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								13
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								14
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								15
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								16
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								17
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								18
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								19
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								20
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								21
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								22
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								23
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								24
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								25
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								26
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								27
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								28
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								29
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								30
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								31
..	..	..	..	..								Mean
..	..	..	..	..								Median
..	..	..	..	..								Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foE

TABLE 36

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3.0	A	A	A	A
2								U3.0R	A	A	B	A
3								3.0	A	A	A	B
4								3.0	A	A	C	C
5								3.0	A	A	C	C
6								2.9	3.5	3.8	A	A
7								C	C	C	C	C
8								A	A	A	A	A
9								A	A	A	A	A
10								A	A	A	A	C
11								A	A	A	C	C
12								A	A	A	C	C
13								2.8	A	A	A	B
14								3.0	A	A	A	B
15								A	A	A	A	A
16								U2.8R	A	A	A	B
17								U2.7R	A	A	A	B
18								R	A	A	A	A
19								R	A	A	A	B
20								U2.6R	R	A	A	A
21								A	A	A	B	A
22							2.2H	R	A	A	A	A
23								A	B	A	A	A
24								2.7	A	A	A	A
25								A	A	A	A	A
26								A	A	A	A	A
27								3.1	A	U4.2A	A	A
28								A	A	A	A	A
29								3.0	A	A	C	C
30								2.9	A	A	A	A
31								A	A	A	A	A
Mean							..	2.9	..	..	..	..
Median							..	3.0	..	..	..	..
Count							1	15	1	2	..	..

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc

Month : October 1958

TABLE 36

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	B								1
A	A	A	A	A								2
A	A	A	A	A								3
C	C	C	C	B	B							4
C	C	C	C	C								5
A	A	A	A	A								6
B	B	A	3'6	3'1								7
A	A	A	A	3'0								8
A	A	4'0	A	A	A							9
C	C	C	A	A	F							10
C	C	C	C	C	C							11
B	A	A	3'6	A								12
A	A	A	A	A								13
A	A	A	A	B								14
C	A	A	A	A								15
A	A	A	A	A	A							16
A	A	A	A	A	A							17
A	B	A	A	A	A							18
A	A	A	A	A	A							19
B	B	B	A	A								20
A	A	A	A	A								21
B	A	A	A	A								22
A	R	A	A	B								23
A	A	A	A	A								24
A	A	A	A	A								25
A	A	A	A	A								26
A	A	A	A	A								27
A	A	A	A	A								28
A	A	A	A	A								29
A	A	A	A	A								30
A	A	A	B	A								31
..	..	..	..	..	..							Mean
..	..	..	..	..	..							Median
..	..	1	2	2	..							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

190

Characteristic : foE

TABLE 36—(Cont d.)

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								A	A	A	A	A
2							2.8	A	A	B	A	A
3							2.6	A	A	A	A	B
4							2.8	3.5	A	C	C	C
5							2.5	R	A	C	C	C
6								3.3	3.6	A	A	A
7							C	C	C	C	C	C
8							A	A	A	A	A	A
9							2.6	A	A	A	A	A
10							2.5	B	A	A	C	C
11							2.6	A	A	A	C	C
12							2.5	A	A	A	C	C
13							2.5	A	A	A	A	B
14							2.6	A	A	A	B	B
15							2.5	A	A	A	A	A
16							U2.4R	3.3	A	A	A	C
17							2.6	U3.0R	A	A	A	A
18								R	A	A	A	A
19								A	A	A	A	B
20								3.1	A	A	A	A
21							U2.6R	A	A	B	A	A
22							2.7	U3.4A	A	A	A	A
23							A	A	A	A	A	U4.3R
24							R	U3.2R	A	A	A	A
25							A	A	A	A	A	A
26							2.5H	A	A	A	A	A
27							A	A	A	A	A	A
28							A	A	A	A	A	A
29								U3.2A	A	C	C	C
30								U3.2A	A	A	A	A
31								A	A	A	A	A
Mean							2.6	3.2	..	..	..	..
Median							2.6	3.2	..	..	..	..
Count							16	9	1	..	..	1

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foE

Unit : Mc

Month : October 1958

TABLE 36—(Contd.)

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	A								1
A	A	A	A	A								2
A	A	A	A	A								3
C	C	C	C	B								4
C	C	C	C									5
A	A	A	3'4	2'8								6
B	A	B	3'4	A								7
A	A	A	3'5	A								8
A	4'0	A	3'1	A								9
C	C	C	A	A								10
C	C	C	C	C								11
A	A	A	3'4									12
A	A	B	A									13
A	A	B	B									14
A	A											15
A	C	A	A	A								16
B	A	A	B	A								17
A	A	A	A	A								18
B	A	A	A	A								19
B	A	A	A	A								20
B	B	A	A	A								21
U4'2R	U4'OR	R	A	B								22
A	A	A	U3'4R	A								23
A	A	A	A	A								24
A	A	A	A	A								25
A	U3'OA	A	A	A								26
A	A	A	B	A								27
A	A	A	B	A								28
A	C	B	A	A								29
A	A	A	A	A								30
A	A	A	B	A								31
..	..	..	3'4	..								Mean
..	..	..	3'4	..								Median
1	3	..	6	1								Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foEs

Unit ; Mc

Month : October 1958

TABLE 37

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								7'0	9'0	10'0	11'6	11'2
2								G	9'0	11'0	11'4	12'0
3								G	9'0	9'4	11'4	11'0
4								7'8	10'2	10'6	C	C
5								G	10'0	10'0	C	C
6								G	9'2	10'4	11'5	11'8
7								G	C	C	C	C
8			C	C	C	C	2'6	6'8	9'8	10'0	10'8	10'8
9								8'2	10'4	10'6	11'2	11'3
10	6'6							8'2	9'4	10'0	11'4	C
11	2'2							8'0	10'6	11'4	C	C
12							8'0	8'8	11'0	11'0	C	C
13								G	8'6	10'2	11'2	11'6
14								G	10'4	11'0	11'6	11'0
15								7'6	10'6	11'1	12'0	12'0
16								G	10'1	11'8	12'0	11'8
17								G	9'6	11'1	11'2	11'8
18								G	8'8	11'0	12'1	12'3
19								G	10'8	11'4	12'1	12'2
20								G	7'6	9'0	11'2	11'4
21								9'6	10'9	10'0	10'7	12'3
22							G	G	8'0	11'2	11'4	11'8
23	3'8							9'0	10'6	10'0	11'6	9'0
24								G	10'4	8'0	8'6	11'0
25					4'6			8'6	9'4	10'4	11'4	11'4
26								7'0	9'6	11'4	12'0	12'0
27								8'0	10'4	10'2	12'0	11'6
28		2'2	3'8		3'4	2'8		8'0	10'2	10'4	11'4	11'4
29			2'4					G	9'8	11'6	C	C
30								G	9'2	10'6	11'2	11'8
31								8'0	9'8	10'2	11'4	11'4
Mean	..	..	..	..	..	..	..	8'0	9'7	10'5	11'4	11'5
Median	..	..	..	..	..	..	..	..	9'8	10'5	11'4	11'6
Count	3	1	2	..	2	1	3	30	30	30	25	24

Sweep : Mc. to 25 Mc. in 27 seconds.

Characteristic : foEs

Unit : Mc

Month : October 1958

TABLE 37

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11'0	9'8	10'4	10'5	8'2	U7'0S					2'2		1
11'4	11'4	11'0	11'0	7'8	U7'0S							2
11'0	11'0	11'0	10'6	8'6	8'0				2'6			3
C	C	C	C	G							4'4	4
C	C	C	C	C	G							5
11'6	11'3	10'6	10'2	7'8	U6'5S							6
10'0	9'5	10'2	8'8	7'4	U5'8S							7
10'7	10'8	11'2	9'2	6'8	S							8
11'4	9'8	8'0	8'8	7'8	5'8							9
C	C	C	9'3	7'8	6'0							10
C	C	C	C	C	C	C	C					11
C	C	C	C	C	C							12
11'4	11'0	11'0	7'6	6'4	8'0				2'1			13
11'7	11'8	12'0	12'0	8'4								14
11'6	12'1	11'8	10'8	8'5								15
C	11'7	11'4	11'4	8'7	7'2							16
10'7	11'8	11'3	11'0	8'2	6'5					2'3		17
12'1	11'9	11'4	10'8	8'8	U7'0S					8'6	3'7	18
C	11'8	11'6	10'8	9'0	7'6							19
11'0	11'4	11'2	12'0	8'9	U7'4S							20
11'2	11'2	10'7	10'8	9'3								21
10'6	11'2	9'0	11'0	8'3	S							22
B	G	8'6	10'6	9'6	S							23
10'2	11'2	11'0	11'0	9'0						S		24
9'6	10'0	11'0	11'0	8'4						U8'0S	U6'0S	25
12'0	11'8	11'8	10'6	8'2						4'4	8'0	26
11'0	10'4	10'6	10'0	8'2								27
11'4	10'6	10'4	10'4	8'0						2'8		28
C	C	11'0	9'4	8'2								29
11'4	11'0	11'0	10'6	9'0								30
12'0	11'2	10'2	9'6	8'2							5'6	31
11'1	11'1	10'7	10'4	8'3	6'9				..	4'7	5'5	Mean
11'3	11'2	11'0	10'6	8'2	7'0				..	3'6	5'6	Median
22	25	26	27	28	14				2	6	5	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : foEs

TABLE 37—(Continued)

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							4.2	9.6	10.2	11.4	11.2	11.4
2							G	8.2	10.2	11.4	11.2	12.0
3							G	7.0	8.6	11.0	11.4	11.1
4							G	8.6	10.6	C	C	C
5							G	7.0	10.2	C	C	C
6							..	8.2	9.8	11.6	11.2	11.8
7		C	C	C	C	C	C	C	C	C	C	C
8						2.6	6.6	8.0	9.6	11.0	11.2	11.4
9							G	8.8	10.6	11.2	11.5	11.6
10							3.1	8.8	9.8	11.1	C	C
11	2.2						G	9.6	10.6	12.0	C	C
12							6.0	9.8	10.6	11.5	C	C
13							G	11.0	9.8	11.2	12.0	B
14							G	7.8	10.2	12.0	12.0	11.8
15							G	10.0	10.6	11.2	11.8	11.4
16							G	7.6	11.0	11.6	11.8	C
17							G	8.4	11.0	11.2	11.1	12.0
18							..	7.0	9.6	11.6	12.0	12.2
19							..	9.6	10.9	11.7	11.9	12.0
20							..	6.8	8.4	11.2	11.9	11.1
21							U9.0S	10.5	9.9	11.4	12.1	12.3
22							G	7.6	11.0	11.2	11.5	11.0
23							U7.0S	9.4	11.0	11.2	11.0	G
24							G	G	8.3	9.0	9.0	11.0
25					3.0		U7.0S	8.8	9.0	11.0	10.8	11.0
26							G	10.0	10.6	12.0	12.0	12.0
27							6.8	8.4	10.2	11.2	11.2	11.4
28		4.0		3.2	3.1	2.2	7.0	9.6	11.0	11.4	11.6	11.2
29							..	G	9.8	C	C	C
30							..	8.0	10.4	11.0	11.6	11.0
31							..	8.8	10.0	11.4	12.0	11.0
Mean	..	..	..	..	..	..	6.3	8.7	10.1	11.3	11.5	11.5
Median	G	8.5	10.2	11.2	11.6	11.4
Count	1	1	..	1	2	2	23	30	30	27	24	22

Sweep 1 Mc to 25 Mc in 27 seconds.

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Characteristic : foEs

Unit : Mc

Month : October 1958

TABLE 37—(Continued)

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
9.8	10.6	10.6	8.4	7.8					1.8			1
11.6	11.6	11.0	8.8	8.0								2
11.4	11.0	11.0	8.6	8.0								3
C	C	C	C	7.0								4
C	C	C	C	G								5
11.6	11.4	10.4	8.5	6.8s								6
10.0	10.3	8.2	7.6	7.4								7
10.8	10.8	10.6	6.6	7.6								8
10.6	9.2	8.2	8.1	6.8					2.0			9
C	C	C	8.0	6.5							3.6	10
C	C	C	C	C	C	C						11
C	C	C	C	C		8.6						12
12.0	11.4	10.6	G	7.8				2.7			4.0	13
12.0	11.0	11.0	8.6	8.0								14
12.0	11.6	11.0	8.8	8.6								15
11.6	C	11.8	9.8	8.6					2.3			16
11.0	11.5	11.0	B	8.6							3.0	17
11.6	11.5	10.8	9.4	8.5								18
B	11.1	11.3	10.1	8.7								19
11.0	12.0	11.2	10.8	8.6								20
11.0	10.8	10.9	9.7	8.6								21
10.2	B	11.0	9.0	8.0								22
G	G	G	9.6	8.0								23
10.4	12.0	11.0	G	8.6					13.0			24
11.0	9.4	11.4	11.0	8.4					3.6	S 6.6	7.8	25
12.0	11.4	11.0	8.6	8.0								26
11.0	10.6	10.2	9.0	8.0					2.2			27
11.5	11.0	10.4	7.8	8.0								28
C	C	10.0	8.2	8.0								29
11.2	11.0	10.6	9.2	8.2								30
11.0	11.0	10.0	8.6	8.2						4.4	5.0	31
11.1	11.0	10.6	8.9	8.0	..	..	..	..	4.2	..	4.7	Mean
11.0	11.0	10.8	8.6	8.0	2.2	..	4.0	Median
24	23	26	26	29	..	1	..	1	6	2	5	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

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Characteristic : fbEs

TABLE 38

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3'0	3'8	4'2	4'3	4'5
2									3'7	4'2	4'9	4'6
3									3'6	4'4	4'4	5'0
4								3'0	3'7	4'2	C	C
5									3'6	4'2	C	C
6									3'8	4'3	4'5	4'5
7								C	C	C	C	C
8			C	C	C	C	2'2	3'0	3'6	4'0	4'2	4'4
9								3'0	3'7	4'2	4'3	4'4
10	2'6							3'2	4'0	4'2	4'4	C
11								3'1	3'7	4'2	C	C
12								3'0	3'7	4'1	C	C
13									3'6	4'1	4'2	4'6
14									4'0	4'2	4'4	5'1
15								3'0	3'6	4'2	4'4	4'6
16									3'8	4'1	4'4	4'7
17									3'8	4'2	4'5	4'6
18									3'9	4'3	4'5	4'6
19									3'8	4'2	4'4	4'9
20									3'8	4'3	4'5	4'7
21								3'0	3'7	4'3	4'7	4'6
22									3'8	4'2	4'6	4'5
23	2'4							3'0		4'0	4'3	4'4
24									3'7	4'0	4'4	4'6
25					2'2			3'0	3'6	4'0	4'2	4'4
27								3'0	3'6	4'0	4'2	4'4
28								3'1	3'8	4'2	4'3	4'4
29			1'8		2'0	1'7		3'0	3'8	4'0	4'4	4'4
30			1'9						3'7	4'1	C	C
31									3'6	4'0	4'2	4'4
								3'0	3'6	4'2	4'2	4'4
Mean	..	..	..	..	..	..	..	3'0	3'7	4'2	4'4	4'6
Median	3'0	3'7	4'2	4'4	4'6
Count	2	..	2	..	2	1	1	15	29	30	25	24

Sweep 1 Mc to 25 Mc in 27 seconds.

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Characteristic : fbEs

TABLE 38

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
4.5	4.4	4.1	3.8	3.3	2.5							1
4.6	4.6	4.2	3.8	3.4	2.6							2
4.6	4.5	4.3	3.8	3.4	2.5				2.2			3
C	C	C	C	C							2.0	4
C	C	C	C	C								5
4.6	4.3	4.2	3.8	3.3								6
4.6		4.2	3.8	3.4								7
4.4	4.4	4.2	3.8	3.4								8
4.4	4.4	4.2	3.8	3.3	2.5							9
C	C	C	3.9	3.2	2.5							10
C	C	C	C	C	C	C	C					11
C	C	C	C	C	C							12
4.6	4.4	4.1	3.8	3.2	2.6				1.8			13
4.6	4.5	4.3	6.2	3.5								14
4.6	4.5	4.2	4.0	3.8								15
C	4.5	4.3	3.9	3.4	2.5					2.0		16
4.7	4.6	4.3	4.0	3.5	2.5							17
4.6	4.4	4.1	3.8	3.4	2.5							18
C	4.7	4.3	3.9	3.4	2.5							19
4.6	4.3	4.1	3.8	3.3	2.5							20
4.8	4.6	4.3	3.8	3.3								21
4.8	4.6	4.2	3.9	3.2								22
		4.1	4.0									23
4.4	4.3	4.0	3.8	3.3						2.6		24
4.2	4.3	4.0	3.6	3.2						2.6		25
										1.8	2.8	25
4.4	4.4	4.0	3.8	3.1								26
4.6	4.5	4.0	3.7	3.2								27
4.4	4.4	4.2	3.8	3.4								28
C	C	4.2	3.7	3.2								29
4.4	4.2	4.2	3.8	3.2								30
4.5	4.4	4.0		3.2							2.1	31
4.5	4.4	4.2	3.9	3.3	2.5	..	..	..	..	..	..	Mean
4.6	4.4	4.2	3.8	3.3	2.5	..	..	..	..	..	..	Median
22	23	26	26	26	11	..	..	..	2	4	3	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : fbEs

TABLE 38—(Continued)

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							3.0	3.5	4.0	4.3	4.6	C
2								3.3	4.0	4.4	4.6	4.6
3								3.3	3.8	4.4	4.6	4.9
4								3.5	4.1	C	C	C
5								3.6	3.9	C	C	C
6												
7		C	C	C	C	C	C	3.4	4.0	4.4	4.5	4.5
8						1.8	2.6	3.3	3.8	4.2	4.4	4.5
9								3.4	4.1	4.3	4.4	4.5
10							2.6		4.1	4.3	C	C
11								3.4	3.8	4.2	C	C
12							2.7	3.5	4.0	4.2	C	C
13								3.4	4.0	4.2	4.6	
14								3.5	3.9	4.3	4.8	4.6
15								3.4	4.0	4.3	4.6	4.5
16								3.4	4.0	4.3	4.6	C
17								3.5	4.0	4.3	4.5	4.8
18								3.8	4.2	4.4	4.5	4.6
19								3.4	4.0	4.4	4.7	5.0
20								3.6	4.2	4.3	4.6	4.6
21							2.7	3.4	3.9	4.3	4.5	4.6
22								3.6	4.0	4.2	4.6	4.6
23							2.8	3.5	3.8	4.2	4.4	
24									3.9	4.4	4.5	4.4
25					1.8		2.6	3.3	3.6	4.0	4.3	4.3
26								3.4	3.8	4.2	4.4	4.4
27							2.7	3.5	4.0	4.2	4.4	4.4
28		2.4		1.9	2.0		2.7	3.5	3.8	4.2	4.4	4.4
29									3.8	C	C	C
30								3.3	3.8	4.2	4.4	4.3
31								3.4	3.9	4.2	4.5	4.5
Mean	2.7	3.4	3.9	4.3	4.5	4.6
Median	2.7	3.4	4.0	4.3	4.5	4.5
Count	..	1	..	1	2	1	9	27	30	27	24	20

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : fbEs

TABLE 38—(Continued)

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.4	4.3	4.0	3.6	3.0					1.8			1
4.4	4.3	4.1	3.7	3.0								2
4.6	4.4	4.1	3.6	3.0								3
C	C	C	C	3.1								4
C	C	C	C									5
4.6	4.3	3.9	3.6	..								6
	4.4		3.6	3.0								7
4.4	4.2	4.1		2.8								8
4.6	4.2	4.0		3.0					1.7			9
C	C	C	3.6	2.9							2.5	10
C	C	C	C	C	C	C						11
C	C	C	C	C								12
4.5	4.3	4.0		3.6				1.5			2.4	13
4.3	4.4	4.3	3.8	3.2								14
4.5	4.3	4.2	4.3	3.2								15
4.5	C	4.0	3.6	3.0					1.8			16
5.0	4.5	4.1		3.0							1.9	17
4.5	4.3	3.9	3.7	3.0								18
	4.6	4.0	3.7	3.1								19
4.5	4.3	4.0	3.6	3.0								20
4.6	4.6	4.1	3.6	3.1								21
		4.0	3.6	3.0								22
4.4	4.3	3.9		3.0					3.5			23
4.2	4.2	4.0	3.4	2.8					2.0	2.4	2.4	24
4.4	4.2	4.0	3.6	2.8								25
4.6	4.1	3.8		3.0								26
4.4	4.2	3.8		3.0								27
C	C	4.2	3.6	3.0								28
4.5	4.3	4.0	3.6	2.9								29
4.5	4.3	3.8		3.0						1.9	2.4	30
												31
4.5	4.3	4.0	3.6	3.0	..	..	..	..	2.2	..	2.3	Mean
4.5	4.3	4.0	3.6	3.0	..	..	..	..	1.8	..	2.4	Median
21	22	24	18	26	..	..	..	1	5	2	5	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : f min

Unit : Mc

Month : October 1958

TABLE 39
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2'0	1'5	1'6	1'6	1'5	1'8	2'6	2'3	2'8	3'0	3'0	3'4
2	2'0	1'7	1'7	1'8	1'6	1'6	2'2	2'6	2'6	2'9	4'9	3'4
3	2'2	1'7	1'7	1'7	2'0	2'1	2'3	2'4	2'3	2'7	3'2	5'0
4	2'2	1'6	2'2	1'9	1'7	2'2	2'5	2'4	2'7	3'3	C	C
5	1'8	1'7	1'6	1'7	1'7	1'9	2'3	2'4	2'5	2'8	C	C
6	1'6	1'7	1'7	1'6	1'6	1'8	2'4	2'5	2'7	3'0	3'3	3'4
7	1'4	1'7	C	C	C	C	C	C	C	C	C	C
8	1'8	1'6	1'5	1'6	1'7	1'7	1'7	1'9	2'4	2'7	3'0	3'0
9	2'0	1'6	1'6	1'6	1'7	1'5	2'1	2'0	2'6	3'0	3'0	3'2
10	1'7	1'9	1'6	1'7	1'7	1'7	2'2	2'4	3'2	3'2	3'0	C
11	1'3	1'7	1'7	1'5	1'7	1'8	2'3	2'1	2'4	3'1	C	C
12	1'5	1'7	1'7	1'5	2'1	2'0	2'2	2'2	2'7	3'0	C	C
13	1'7	2'2	2'2	1'7	2'0	2'1	2'4	2'2	2'3	2'6	2'8	3'6
14	2'1	1'6	1'7	2'0	1'7	1'6	2'3	2'3	3'1	3'0	3'2	5'1
15	2'3	1'9	1'6	1'9	1'9	1'7	2'2	2'2	2'5	2'9	3'1	3'3
16	1'9	1'8	1'5	1'5	1'5	1'6	2'2	2'2	2'7	3'0	3'0	4'3
17	1'5	1'7	1'6	1'6	1'7	1'7	2'3	2'2	2'9	3'1	3'4	3'6
18	1'7	1'8	1'5	1'6	1'6	1'7	2'3	2'6	2'9	3'3	3'2	3'5
19	1'6	1'6	1'7	2'0	1'7	1'6	2'6	2'5	2'9	3'2	3'3	3'7
20	1'7	1'6	1'9	2'0	1'7	1'8	2'3	2'5	2'9	3'4	3'3	3'4
21	1'9	2'1	1'9	2'0	2'2	2'0	2'2	2'2	2'5	3'5	4'3	3'6
22	2'0	1'5	1'6	1'5	1'8	1'6	1'8	2'4	3'0	3'2	3'8	3'6
23	1'6	1'5	1'5	1'5	1'8	1'6	2'2	2'4	4'2	3'3	3'0	3'2
24	1'8	1'7	1'9	1'3	1'4	1'2	2'2	2'1	2'4	3'0	3'0	3'2
25	2'2	1'4	1'7	1'4	1'4	1'6	2'3	1'9	2'4	2'6	2'8	3'0
26	1'6	1'5	1'7	1'9	1'9	1'7	2'2	2'0	2'6	2'8	3'0	3'0
27	1'6	1'6	1'7	1'8	1'5	1'6	2'3	2'4	2'8	3'0	3'2	3'2
28	1'5	1'2	1'5	1'7	1'3	1'2	2'0	2'2	2'6	3'0	3'2	3'2
29	1'6	1'6	1'4	1'5	1'4	1'7	2'4	2'4	2'8	3'0	C	C
30	1'6	1'8	1'7	1'7	2'0	1'9	2'3	2'2	2'4	2'6	2'8	3'0
31	1'6	1'8	1'6	1'8	2'2	1'8	2'2	2'3	2'6	3'0	3'0	3'0
Mean	1'8	1'7	1'7	1'7	1'7	1'7	2'2	2'3	2'7	3'0	3'2	3'5
Median	1'7	1'7	1'7	1'7	1'7	1'7	2'3	2'3	2'6	3'0	3'1	3'4
Count	31	31	30	30	30	30	30	30	30	30	25	24

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : f min

Unit : Mc

Month : October 1958

TABLE 39
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
3.3	3.6	3.0	2.6	3.3	2.5	1.6	1.3	2.0	1.8	1.7	1.8	1
3.6	3.3	3.0	2.6	2.5	2.6	1.6	2.0	1.7	1.9	2.0	1.6	2
3.8	3.5	3.2	2.5	2.4	2.5	1.6	1.7	1.4	1.6	1.6	1.7	3
C	C	C	C	3.6	2.6	1.6	2.0	2.0	2.0	1.7	1.5	4
C	C	C	C	C	3.0	1.7	1.8	1.8	2.0	1.8	1.7	5
3.5	3.3	3.0	2.8	2.6	2.6	1.6	1.6	1.8	1.8	1.5	1.5	6
4.2	4.6	3.0	3.0	2.4	2.4	1.5	1.8	2.0	2.2	1.7	1.7	7
3.2	3.0	2.8	2.5	2.5	2.4	1.6	2.0	1.9	2.0	1.7	1.5	8
3.5	3.2	3.0	2.6	2.4	2.2	1.5	1.8	2.0	1.8	1.9	1.7	9
C	C	C	2.7	2.4	1.9	1.7	1.9	2.0	2.0	1.6	1.7	10
C	C	C	C	C	C	C	C	1.7	2.0	1.8	1.6	11
C	C	C	C	C	C	1.6	2.0	2.0	1.7	1.7	1.6	12
3.6	3.1	3.0	2.5	2.2	1.6	1.7	1.6	1.8	1.7	2.0	2.0	13
3.4	3.4	3.4	3.2	3.4	3.1	1.8	2.0	2.0	1.9	1.8	1.9	14
3.4	3.4	3.0	3.2	3.8	2.8	2.0	1.4	2.0	2.0	1.9	1.8	15
C	3.2	3.0	2.8	2.4	2.2	1.5	1.9	2.1	1.5	1.7	1.5	16
3.4	3.6	3.2	2.9	2.4	2.4	2.0	1.8	1.6	1.8	1.9	1.7	17
3.5	3.2	3.1	2.7	2.6	2.2	1.5	2.0	1.9	1.8	1.9	1.8	18
C	3.9	3.2	2.9	2.8	2.2	1.8	1.8	2.0	1.9	1.9	2.2	19
3.3	3.1	3.0	2.6	2.6	2.2	1.6	1.9	2.0	1.8	1.8	1.9	20
4.4	4.3	4.0	2.7	2.7	2.5	1.8	1.8	1.9	2.0	1.8	1.8	21
3.8	3.4	3.0	2.4	2.5	2.2	1.6	1.5	1.6	2.4	1.7	2.0	22
4.4	3.4	3.0	2.8	3.4	2.4	1.7	2.0	1.6	1.6	2.3	2.2	23
3.4	3.2	3.1	2.8	2.4	2.4	1.3	1.9	1.8	2.2	2.4	2.2	24
3.0	3.0	2.8	2.4	2.5	2.5	1.7	1.5	1.8	1.8	1.6	1.8	25
3.4	3.0	2.6	2.8	2.4	2.4	1.4	1.9	1.7	1.6	1.9	1.6	26
3.2	3.2	3.0	2.6	3.0	2.6	1.5	1.7	1.9	2.0	1.7	1.8	27
3.4	3.4	3.0	2.5	2.8	2.5	1.5	1.8	2.0	2.2	1.7	1.5	28
C	C	3.1	2.8	2.4	2.4	1.4	2.2	1.8	1.9	2.2	1.7	29
3.0	3.0	2.8	2.6	2.6	2.5	1.3	1.8	1.8	1.7	1.8	1.6	30
3.4	3.0	3.0	4.0	2.6	2.4	1.4	1.8	1.9	1.8	1.4	1.7	31
3.5	3.4	3.0	2.8	2.7	2.4	1.6	1.8	1.9	1.9	1.8	1.8	Mean
3.4	3.3	3.0	2.7	2.6	2.4	1.6	1.8	1.9	1.9	1.8	1.7	Median
23	25	26	27	28	29	30	30	31	31	31	31	Count

Sweep 1 Mc to 25 Mc in 27 seconds,

Characteristic : f min

Unit : Mc

Month : October 1958

TABLE 39—*contd.*

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1'8	1'3	1'7	1'7	1'7	2'1	2'5	2'5	3'0	3'0	3'2	3'2
2	1'9	1'6	1'7	1'6	1'6	2'2	2'4	2'5	2'8	3'8	3'8	3'5
3	1'7	1'6	1'8	1'8	2'2	2'2	2'1	2'2	2'4	3'1	3'3	4'9
4	1'8	1'8	2'2	1'7	1'8	2'2	2'3	2'6	3'1	C	C	C
5	1'7	1'7	1'6	1'6	1'8	1'9	2'0	2'8	2'6	C	C	C
6	1'6	1'4	1'7	1'7	1'7	2'0	3'0	2'4	2'8	3'1	3'3	3'3
7	1'4	C	C	C	C	C	C	C	C	C	C	C
8	1'6	1'5	1'7	1'7	1'7	1'3	1'8	2'3	2'7	2'8	3'0	3'0
9	1'9	1'3	1'5	1'6	1'7	1'8	1'8	2'2	2'8	3'0	3'1	3'5
10	2'2	2'0	2'0	1'9	1'7	2'0	1'9	4'0	3'0	2'9	C	C
11	1'6	1'6	1'8	1'7	1'7	1'9	2'1	2'3	2'8	3'0	C	C
12	1'8	1'8	1'5	1'8	1'9	2'0	2'2	2'6	3'0	2'8	C	C
13	2'1	2'4	2'1	2'1	2'2	2'2	2'2	2'2	2'6	2'6	3'1	5'6
14	1'7	1'6	1'6	1'8	1'7	1'8	2'2	2'5	3'2	3'2	3'8	3'7
15	2'2	1'7	1'8	2'0	1'7	1'8	2'0	2'3	3'0	3'0	3'0	3'2
16	1'7	2'0	1'6	1'7	1'6	1'8	2'1	2'4	3'0	3'0	3'5	C
17	1'6	1'7	1'5	1'6	1'5	1'8	2'1	2'6	3'0	3'0	3'4	3'4
18	1'6	1'6	1'7	1'6	1'6	1'8	2'9	2'6	3'1	3'2	3'4	3'4
19	1'5	2'1	1'7	1'9	1'6	1'9	2'6	2'6	3'1	3'4	3'3	3'8
20	1'7	2'0	1'9	1'9	1'7	2'0	2'8	2'6	3'2	3'2	3'4	3'5
21	1'7	1'9	2'2	2'1	2'3	1'9	2'0	2'3	2'8	4'0	3'5	3'5
22	1'7	1'8	1'5	1'6	1'8	1'8	2'2	2'6	3'0	3'4	3'4	3'5
23	2'6	1'5	1'7	1'8	1'6	1'6	2'2	2'6	3'2	3'2	3'2	3'1
24	1'9	1'8	1'7	1'6	1'3	1'7	2'0	2'5	2'8	2'8	3'1	3'2
25	1'9	1'5	1'4	1'3	1'3	1'6	1'9	2'2	2'6	2'6	2'8	3'0
26	1'7	1'4	1'6	2'0	1'8	1'8	2'0	2'1	2'6	2'8	3'0	3'2
27	1'7	1'6	1'8	1'7	1'5	1'9	2'3	2'6	2'8	3'3	3'8	3'4
28	1'6	1'2	1'7	1'1	1'2	1'7	2'0	2'4	2'6	3'0	3'0	3'4
29	1'7	1'5	1'9	1'7	1'7	1'8	2'7	3'0	3'0	C	C	C
30	1'7	1'7	1'6	1'7	1'9	2'0	2'2	2'3	2'8	3'0	3'0	3'0
31	1'7	1'6	1'6	1'8	1'9	1'8	2'4	2'6	2'7	3'0	3'0	3'0
Mean	1'8	1'7	1'7	1'7	1'7	1'9	2'2	2'5	2'9	3'1	3'3	3'5
Median	1'7	1'6	1'7	1'7	1'7	1'8	2'2	2'5	2'8	3'0	3'2	3'4
Count	31	30	30	30	30	30	30	30	30	27	24	23

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : f min

Unit : Mc

Month : October 1958

TABLE 39—contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
3.4	3.2	3.0	3.0	2.4	2.0	1.0	1.9	1.8	1.7	1.6	1.7	1
3.4	3.1	2.8	2.8	2.4	2.1	1.3	1.8	2.0	2.0	2.3	2.0	2
3.6	3.4	3.0	2.8	2.4	2.0	1.5	2.0	1.7	2.0	1.8	1.7	3
C	C	C	C	3.0	2.1	1.6	2.0	2.0	2.2	2.0	1.7	4
C	C	C	C	3.1	2.3	1.8	2.2	2.1	1.8	2.0	1.6	5
3.4	3.1	2.8	2.8	3.0	2.0	1.7	2.0	1.4	1.5	1.4	1.5	6
4.6	3.4	4.2	2.8	2.4	2.0	1.3	2.0	2.0	1.7	1.7	1.9	7
3.1	3.0	2.6	2.4	1.8	2.2	1.6	2.0	1.8	1.3	1.7	1.6	8
3.4	3.0	3.0	2.8	2.4	2.0	1.5	1.9	1.9	2.1	1.9	1.9	9
C	C	C	2.6	2.2	1.9	1.3	1.9	1.9	1.6	1.4	1.6	10
C	C	C	C	C	C	C	2.2	2.0	2.0	1.9	1.8	11
C	C	C	C	C	2.1	1.5	2.0	1.7	1.8	1.6	1.6	12
3.2	3.1	2.8	2.8	2.5	1.4	1.5	2.0	1.3	1.9	2.2	2.2	13
3.4	3.6	4.3	3.2	2.8	2.4	1.2	2.0	1.9	1.8	1.6	2.2	14
3.4	3.2	4.1	4.3	3.2	2.6	1.7	1.7	2.0	2.0	2.1	1.5	15
3.4	C	2.9	2.8	2.2	2.1	1.2	1.9	1.8	1.8	1.9	1.7	16
3.8	3.4	2.9	4.6	2.4	2.0	1.9	1.8	1.8	1.9	1.8	1.8	17
3.4	3.3	2.9	2.6	2.5	2.0	1.7	2.2	1.8	1.8	1.9	1.6	18
7.0	3.5	3.0	3.0	2.5	2.0	1.4	2.0	2.1	2.0	2.0	2.0	19
3.2	3.1	2.9	2.6	2.4	2.0	2.0	1.9	1.9	1.9	1.8	2.1	20
4.5	4.1	3.1	2.8	2.6	2.0	1.7	1.9	1.9	2.1	1.9	1.6	21
5.0	4.8	2.8	2.6	2.6	2.2	1.3	2.0	2.0	2.4	2.0	1.9	22
3.2	3.2	3.0	3.6	3.0	1.9	1.3	1.7	1.8	2.0	2.6	2.0	23
3.2	3.1	3.1	2.7	2.4	2.0	1.3	2.0	2.2	2.2	2.6	1.8	24
3.0	3.0	2.8	2.8	2.4	1.8	1.8	2.0	2.0	E	1.4	2.1	25
3.0	3.0	2.8	2.5	2.3	1.8	1.6	1.7	1.6	1.7	2.1	1.7	26
3.2	3.0	2.8	3.5	2.6	2.0	1.4	1.8	1.8	1.7	2.0	1.7	27
3.0	3.0	3.0	3.6	2.4	1.9	1.3	1.6	1.8	2.0	1.6	1.5	28
C	C	4.2	2.6	2.4	1.7	1.5	2.1	1.7	2.2	2.0	1.7	29
3.0	3.0	2.6	2.6	2.3	1.8	1.4	2.0	1.9	1.8	1.8	1.8	30
3.2	3.2	2.7	3.8	2.4	1.7	1.5	1.9	1.8	1.8	1.5	1.9	31
3.6	3.3	3.1	3.0	2.5	2.0	1.5	1.9	1.9	1.9	1.9	1.8	Mean
3.4	3.2	2.9	2.8	2.4	2.0	1.5	2.0	1.9	1.9	1.9	1.7	Median
25	24	26	27	29	30	30	31	31	31	31	31	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

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Characteristic : h/F₂

TABLE 40

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Mean							
Median							
Count							

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : h/F₂
 Unit : Km
 Month : October 1958

TABLE 40
 Ionospheric Data
 75.0° E Mean Time

Latitude : 10.2° N
 Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L L L C C	L L L C C	L L L C C	L L L C C	L L L L C	L L L L L							1
												2
												3
												4
												5
L L L L C	L L L L C	L L L L C	L L L L L	L L L L L								6
					L							7
												8
												9
												10
C C L L L	C C L L L	C C L L L	C C L L L	C C L L L	C C							11
												12
												13
												14
												15
C L L C L	L L L L L	L L L L L	L L L L L	L L L L L	L							16
					L							17
					L							18
					L							19
												20
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								21
												22
												23
												24
												25
L L L C L	L L L C L	L L L L L	L L L L L	L L L L L								26
												27
												28
												29
												30
L	LH	L	L	L								31
..	..	..	..	..	..							Mean
..	..	..	..	..	..							Median
..	1	..	..	..	..							Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : h/F₂TABLE 40—*contd.*

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	C	C	C
5								L	L	C	C	C
6								L	L	L	L	L
7							C	C	C	L	L	L
8								L	L	L	L	L
9							L	L	L	L	L	L
10								L	L	L	C	C
11							L	L	L	L	C	C
12							L	L	L	L	C	C
13								L	L	L	L	L
14							L	L	L	L	L	L
15								L	L	L	L	L
16							L	L	L	L	L	C
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27							L	L	L	L	L	L
28								L	L	L	L	L
29							L	L	L	C	C	C
30								L	L	L	L	L
31							L	L	L	L	L	L
Mean						
Median						
Count						

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : h'F₂

Unit : Km

Month : October 1958

TABLE 40—*contd.*

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
C	C	C	C	L								4
C	C	C	C	L								5
L	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
C	C	C	L	L								9
C	C	C	L	L								10
C	C	C	C	C								11
L	L	L	L	L								12
L	L	L	L	L								13
L	L	L	L	L								14
L	L	L	L	L								15
L	C	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L								27
C	C	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
L	LH	L	L	L								31
..	..	..	..	..								Mean
..	..	..	..	..								Median
..	..	..	..	..								Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : h'F

Unit : Km

Month : October 1958

TABLE 4I

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	240	280	305	235	245	270	275	250	240	220	215	215
2	260	225	220	240	230	220	260	240	235	220	220	235
3	260	240	260	240	240	240	265	245	250	220	215	B
4	255	275	275	240	220	220	260	240	235	220	C	C
5	245	240	240	235	225	210	255	240	235	220	C	C
6	250	255	250	240	240	250	270	245	230	225	215	210H
7	240	235	C	C	C	C	C	C	C	C	C	C
8	260	250	240	225	220	230	275	250	240	225	220	220
9	255	225	230	230	220	220	265	240	225H	225	210H	220
10	260	240	240	245	220	210	260	245	245	225	220	C
11	260F	240	240F	230F	230	220	260	240	230	220	C	C
12	235	U245F	255	225	235	225	270	250	235	220	C	C
13	245	250	240	U240F	240	U230F	260	245	230	225	200	210
14	U275F	250	U245F	U240F	235	210	260	245	240	220	215	B
15	260	245	235	230	230	220	270	245	230	230	220	230
16	260	260	260	240	220	220	260	250	235	220	220	U225B
17	270	245	250	240	235	230	280	250	240	225	225	220
18	280	260	245	245	240	230	280	260	240	235	220	220
19	280	280	240	240	225	225	280	250	245	230	230	235
20	280	280	300	U280F	240	235	270	255	245	235H	230	230
21	280	270	265	240	230	240	280	250	240	230	230	220
22	280	260	260	240	240	240	280	260	240	240	235	225
23	300	280	280	280	300	380	300	260	U250B	240	235	230
24	275	280	280	240	260	240	270	250	240	230	220	220
25	280	280	280	350	350	500	280	250	240	220	220	220
26	260	240	240	240	220	220	260	240	240	220	220	210
27	245	230	240	255	270	265	280	255	240	235	220	225
28	225	240	295	320	310	300	280	255	240	235	230	220
29	255	295	300	270	240	230	275	250	240	230	C	C
30	250	230	225	230	255	240	275	245	235	220	215	210
31	255	255	235	220	230	250	280	250	235	225	220	210
Mean	260	255	255	250	245	245	270	250	240	225	220	220
Median	260	250	250	240	235	230	270	250	240	225	220	220
Count	31	31	30	30	30	30	30	30	30	30	25	22

Sweep : Mc to 25 Mc in 27 seconds.

Characteristic : h'F

Unit : Km

Month : October 1958

TABLE 4I

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
220	220H	230	230	240	270	335	480	450	380	340	320	1
220	220H	215	225	240	275	350	500	500	420	380	310	2
215H	220	220	230	245	270	340	460	440	330	265	260	3
C	C	C	C	250	275	355	500	500	380	275	260	4
C	C	C	C	C	270	360	500	540	F	340	245	5
225	220	220	230	240	270	345	500	U390F	300	250	245	6
U230B	230	230	240	250	270	350	F	F	U305F	305	275	7
220	220	230	235	250	270	350	F	F	U320F	305	270	8
220	225	220	230	250	275	355	U445F	U400F	U365F	295	260	9
C	C	C	230	245	270	355	F	U450F	360F	330	280	10
C	C	C	C	C	C	C	C	U420F	F	U330F	U255F	11
C	C	C	C	C	C	370	F	F	F	U320F	U260F	12
225	215	220	235	250	280	365	U480F	U370F	U310F	U320F	U305F	13
210	230	230	A	250	275	355	F	U460F	U370F	U340F	280	14
225	220	220	240	260	275	365	U520F	U380F	U400F	U355F	280	15
C	230	230	240	260	285	380	U505F	F	U280F	300	275	16
230	230	235	240	260	290	400	520	U470F	F	F	U280F	17
220	220	235	240	260	295	385	U580F	F	F	U380F	345	18
C	U240B	235	245	260	295	390	540	F	U435F	U390F	U300F	19
225	220	220	230H	260	295	400	U545F	F	F	U385F	300F	20
230	230	225	240	260	290	400	U505F	F	F	330	320	21
220	220	240	240	260	300	380	365	320	300	280	280	22
220	220	225	250	260	300	380	400F	305	260	270	260	23
220	220	240	240	255	280	340	300	240	260	255	260	24
215	225	230	240	250	275	360	400F	U500F	U400F	340	320F	25
210	220	220	240	250	280	380	F	U300F	U300F	U400F	260	26
225	220	225	240	250	285	375	460F	500F	300F	290	260	27
225	230	230	240	255	290	385	400	300	260	260	250	28
C	C	240	240	255	280	380	400	380	340	320	270	29
220	220	220	230	250	280	380	F	420F	320	280	260	30
210	210H	210	240	255	280	380	510F	400F	450F	340	300	31
220	225	225	235	250	280	370	470	410	340	320	280	Mean
220	220	230	240	250	280	370	500	420	325	320	275	Median
23	25	26	26	28	29	30	23	23	24	30	31	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

210

Characteristic : h'F

TABLE 41—*contd.*

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	255	300	270	240	260	280	260	240	230	220	210	200
2	240	220	225	230	220	240	250	240	230	220	220	220
3	245	240	240	230	240	240	255	240	225	220	220	U220B
4	260	275	260	225	220	220	255	240	230	C	C	C
5	240	235	235	235	220	225	245	240	225	C	C	C
6	245	240	250	230	255	250	255	240	230H	220	210H	225
7	230	C	C	C	C	C	C	C	C	C	C	C
8	250	250	230	220	225	260	260	240	225	220	215	220
9	240	225	230	220	225	235	250	240	220H	225	225	220
10	240	245	240	235	220	235	250	250	235	215H	C	C
11	240F	240	240	220	220	240	250	240	225	220	C	C
12	235	U250F	240	U225F	230	240	255	240	225	210	C	C
13	250	U250F	250	U250F	U230F	U230F	250	240	225	210	210	B
14	260	U245F	230	240	220	230	250	240	230	215	B	210
15	250	230	240	235F	230	240	255	240	230	220	225	230
16	250	255	245	235	225	240	260	240	225	215	215	C
17	260	245	245	240	235	245	260	240	235	220	220	235
18	270	245	240	245	235	250	260	245	240	225	225	225
19	290	265	235	235	230	245	260	245	240	225	230	U240B
20	300	295H	290	240	230	250	260	245	240	230H	220	220
21	280	265	250	235	235	260	270	245	235	230	210H	230
22	260	260	260	240	235	260	260	250	240	230	235	220
23	300	280	280	300	320	370	270	260	240	235	230	220
24	280	280	260	250	260	250	260	240	240	220	210H	220
25	280	270	320	340	405	340	260	240	235	220	215	220
26	250	220	230	220	220	220	250	240	230	220	210	200
27	240	230	245	260	280	255	270	245	235	230	220	225
28	225	270	300	320	295	300	265	245	235	230	225	220
29	280	300	290	260	230	245	260	250	235	C	C	C
30	245	230	220	240	240	235	255	240	225	220	210	205
31	260	240	230	225	240	265	260	240	230	220	220	210
Mean	255	255	250	245	245	255	255	245	230	220	220	220
Median	250	250	240	235	230	245	260	240	230	220	220	220
Count	31	30	30	30	30	30	30	30	30	27	23	22

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : h'F

Unit : Km

Month : October 1958

TABLE 4I—*contd.*

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
220	220	225	240	260	300	410	500	410	360	345	260	1
205H	220	220	240	260	300	445	500	510	F	310	280	2
220	215H	220	240	260	300	435	465	360	300	260	250	3
C	C	C	C	260	300	450	F	470	F	260	250	4
C	C	C	C	260	300	455	500	480	415	295	245	5
225	225	225	240	260	300	455	U430F	335	270	240	250	6
225	225	235	240	260	300	425	F	F	315	280	260	7
220	220	235	245	255	300	F	F	F	U340F	300	255	8
225	220H	230	240	260	300	F	U460F	U345F	355	260	255	9
C	C	C	240	260	300	U440F	F	U480F	340	280	260	10
C	C	C	C	C	C	C	U540F	F	U320F	U280F	U240F	11
C	C	C	C	C	305	F	F	F	U305F	U270F	240	12
220	215	230	240	270	305	445	U440F	U300F	U365F	U310F	U300F	13
210	210	235	245	265	305	405	U500F	U420F	U340F	U305F	275	14
225	220	230	255	265	300	455	F	U385F	U400F	300F	280	15
225	C	240	245	260	320	U445F	F	F	U320F	280	270	16
240	230	240	U260B	270	320	505	U465F	U540F	F	F	280	17
220	230	235	245	280	320	475	F	F	U420F	360	300	18
B	235	235	250	280	320	480	U600F	U510F	U405F	U380F	275	19
220	225	225	250	275	320	U505F	F	F	U395F	U380F	295	20
235	230	230	250	275	325	480	U510F	U490F	F	305	305	21
B	B	240	255	280	330	400	340	300	300	290	280	22
225	230	240	250	275	320	420	340	280	300	260	265	23
220	230	240	250	260	310	310	280	240	260	240	280	24
220	225	235	240	260	300	400	F	U510F	U350F	320F	280	25
205	220	225	240	260	310	F	F	U270F	U320F	320	245	26
225	220	240	245	270	300	U420F	520	380F	U300F	280	230	27
230	225	235	250	260	315	420	350	280	260	250	240	28
C	C	240	250	265	310	410	400	340	325	300	260	29
220	220	230	240	260	310	440	F	380	300	270	255	30
220	200H	220	245	265	310	480	F	380F	440F	320	300	31
220	220	230	245	265	310	440	450	390	340	295	265	Mean
220	220	235	245	260	305	440	465	380	325	290	260	Median
23	23	26	27	29	30	26	18	24	27	30	31	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

212

Characteristic : h'E

TABLE 42

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								120	110	A	A	A
2								120	110	A	B	A
3								115	105	A	A	B
4								115	110	110	C	C
5								115	A	A	C	C
6								120	110	110	A	A
7							C	C	C	C	C	C
8								110	105	110	A	A
9								110	A	A	A	A
10								110	A	A	A	A
11								A	A	A	C	C
12								A	A	A	C	C
13								115	110	105	A	B
14								120	A	A	A	B
15								115	A	A	A	A
16								115	A	A	A	B
17								120	A	A	B	B
18								120	115	A	A	A
19								120	A	A	A	B
20								125	115	A	A	A
21								115	A	B	B	B
22							130	120	120	110	B	A
23								A	B	120	110	110
24								120	110	110	110	110
25								110	110	A	A	A
26								110	A	A	A	A
27								120	120	120	120	120
28								120	A	120	A	A
29								120	120	115	C	C
30								120	115	A	A	A
31								110	110	110	A	A
Mean							..	115	110	115	..	..
Median							..	120	110	110	..	..
Count							1	27	16	11	3	3

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : h'E

Unit : Km

Month : October 1958

TABLE 42

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
105	A	A	A	B								1
A	A	A	A	110								2
A	A	A	A	115								3
C	C	C	C	B	B							4
C	C	C	C	C								5
A	A	A	A	120								6
B	B	A	120	120								7
A	A	110	110	115								8
A	A	115	110	115	120							9
A	A	A	110	115	120							10
C	C	C	C	C	C							11
C	C	C	C	C	C							12
B	A	A	115	A								13
A	A	A	A	A								14
A	A	A	A	B								15
C	A	A	A	A								16
B	B	A	A	A	A							17
A	A	A	A	A	A							18
C	B	A	A	A								19
A	A	A	A	A	A							20
B	B	B	A	A								21
B	A	110	A	120								22
B	120	120	A	B								23
A	A	110	120	120								24
A	110	A	120	120								25
A	A	A	110	120								26
120	120	120	120	A								27
115	120	115	A	120								28
C	C	120	A	A								29
A	A	A	110	120								30
A	A	A	B	120								31
..	..	115	115	120	..							Mean
..	..	115	110	120	..							Median
3	4	8	10	14	2							Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : h'E

TABLE 42—contd.

Latitude : 10.2° N

Unit : Km.

Ionospheric Data

Longitude : 77.5°

Month : October 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								110	A	A	A	A
2							120	110	A	B	A	A
3							120	105	A	A	A	B
4							120	110	110	C	C	C
5							115	115	A	C	C	C
6								120	110	A	110	A
7							C	C	C	C	C	C
8							110	110	110	A	A	A
9							120	110	A	A	A	A
10							120	B	115	A	C	C
11							120	110	A	A	C	C
12							130	A	A	A	C	C
13							120	A	105	A	A	B
14							120	115	A	A	B	B
15							120	A	A	A	A	A
16							120	115	A	A	B	C
17							125	115	A	A	B	B
18								115	A	A	A	A
19								A	A	A	A	B
20								120	A	A	A	A
21							120	A	A	B	B	A
22							125	120	110	110	A	A
23							A	110	120	110	115	110
24							120	120	110	110	110	A
25							110	110	A	A	A	A
26							120	A	A	A	A	A
27							125	120	120	A	B	120
28							120	115	A	A	A	A
29								120	120	C	C	C
30								115	110	A	A	A
31								110	110	A	A	A
Mean							120	115	110	..	..	..
Median							120	115	110	..	..	..
Count							21	23	12	3	3	2

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : h'E

TABLE 42—contd.

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
115	A	A	A	A								1
A	A	A	A	A								2
A	A	A	A	A								3
C	C	C	C	A								4
C	C	C	C	B								5
A	A	A	120									6
B	A	B	120	120								7
A	A	110	110	A								8
A	115	115	115	120								9
C	C	C	110	115								10
C	C	C	C	C								11
C	C	C	C	C								12
A	A	110	120									13
A	A	B	A									14
A	A	B	B									15
A	C	A	A	A								16
B	A	A	B	A								17
A	A	A	A	A								18
B	A	A	A	A								19
A	A	A	A	A								20
B	B	A	A	A								21
B	B	A	115	A								22
120	120	120	B	B								23
A	110	120	120	120								24
A	120	A	120	120								25
A	A	110	110	120								26
A	120	120	B									27
115	120	A	B	120								28
C	C	B	A	120								29
A	A	110	110	120								30
A	A	..	B	A								31
..	120	115	115	120								Mean
..	120	110	115	120								Median
3	6	8	11	9								Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic: h'Es

Unit : Km

Month : October 1958

TABLE 43
Ionospheric Data
75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								105	100	100	100	100
2								G	100	100	100	100
3								G	100	100	100	100
4								105	100	100	C	C
5								G	100	100	C	C
6								G	100	100	100	100
7			C	C	C	C	C	C	C	C	C	C
8							110	105	100	100	100	100
9								105	100	100	100	100
10	105							105	100	100	100	C
11	100							105	100	100	C	C
12							135	100	100	100	C	C
13								G	100	100	100	100
14								G	100	100	100	100
15								105	100	100	100	100
16								G	100	100	100	100
17								G	100	100	100	100
18								G	100	100	100	100
19								G	100	100	100	100
20								G	100	100	100	100
21							G	100	100	100	100	100
22								G	100	100	100	100
23	105							105	100	100	100	100
24								G	100	100	100	100
25					100			100	100	100	100	100
26								100	100	100	100	100
27								110	105	105	100	100
28		120	120		110	105		110	100	100	100	100
29			110					G	100	100	C	C
30								G	100	100	100	100
31								100	100	100	100	100
Mean								105	100	100	100	100
Median								105	100	100	100	100
Count	3	1	2	..	2	1	2	15	30	30	25	24

Sweep 1 Mc to 25 Mc in 27 Seconds.

Characteristic : h'Es

Unit : Km

Month : October 1958

TABLE 43

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100	105					120		1
100	100	100	100	100	110							2
100	100	100	100	100	110				120			3
C	C	C	C	C	G						105	4
C	C	C	C	C	G							5
100	100	100	100	105	110							6
100	100	100	100	105	110							7
100	100	100	100	105	105							8
100	100	100	100	105	110							9
C	C	C	100	105	110							10
C	C	C	C	C	C	C	C					11
C	C	C	C	C	C							12
100	100	100	100	100	100				125			13
100	100	100	105	110								14
100	100	100	100	105								15
C	100	100	100	100	100					105		16
100	100	100	100	100	100						120	17
100	100	100	100	100	100					120		18
C	100	100	100	100	110							19
100	100	100	100	100	100							20
100	100	100	100	100								21
100	100	100	100	100	105							22
B	G	100	105	105	110					100		23
100	100	100	100	105						110	105	24
100	100	100	100	105						120	110	25
100	100	100	100	105								26
100	100	100	100	105						120		27
100	100	100	100	100								28
C	C	100	100	110								29
100	100	100	100	100								30
100	100	100	100	100							110	31
100	100	100	100	105	105	..	..	..	..	115	110	Mean
100	100	100	100	100	110	..	..	..	..	120	110	Median
22	24	26	27	27	16	..	..	..	2	7	5	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : h'Es

TABLE 43—(contd.)

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							125	100	100	100	100	100
2							G	100	100	100	100	100
3							G	100	100	100	100	100
4							G	100	100	C	C	C
5							G	100	100	C	C	C
6							..	105	100	100	100	100
7		G	G	G	G	C	C	C	C	C	C	C
8						105	100	100	100	100	100	100
9							G	100	100	100	100	100
10							120	105	100	100	C	C
11	100						G	100	100	100	C	C
12							130	100	100	100	C	C
13							G	100	100	100	100	B
14							G	105	100	100	100	100
15							G	100	100	100	100	100
16							G	100	100	100	100	C
17							G	100	100	100	100	100
18							..	100	100	100	100	100
19							..	100	100	100	100	100
20							..	100	100	100	100	100
21							100	100	100	100	100	100
22							G	100	100	100	100	100
23							105	105	100	100	100	G
24							G	G	100	100	100	100
25					105		100	100	100	100	100	100
26							G	100	100	100	100	100
27							120	110	105	100	100	100
28		120		110	110	110	110	110	110	100	100	100
29								G	100	C	C	C
30								100	100	100	100	100
31								100	100	100	100	100
Mean	..	..	..	..	..	..	110	100	100	100	100	100
Median	..	..	..	..	..	..	110	100	100	100	100	100
Count	1	1	..	1	2	2	9	28	30	27	24	21

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : h'E_s
 Unit : Km
 Month : October 1958

TABLE 43—*contd.*
 Ionospheric Data
 75.0° E Mean Time

Latitude : 10.2° N
 Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	100					120			1
100	100	100	100	105								2
100	100	100	100	105								3
G	G	G	G	100								4
G	G	G	G	G								5
100	100	100	100	105								6
100	100	100	100	110								7
100	100	100	100	105					125			8
100	100	100	105	105							105	9
G	G	G	105	105								10
G	G	G	G	G	C	C						11
G	G	G	G	G		110						12
100	100	100	G	100				125			110	13
100	100	105	110	110								14
110	110	100	110	105								15
100	G	100	100	100					120			16
100	100	100	B	100								17
100	100	100	100	100							120	18
B	100	100	100	100								19
100	100	100	100	100								20
100	100	100	100	100								21
100	B	100	100	100								22
G	G	G	105	105					105			23
100	100	100	G	110						105		24
100	100	100	100	110					120	120	120	25
100	100	100	105	110								26
100	100	100	100	115					115			27
100	100	100	100	100								28
G	G	100	110	110								29
100	100	100	100	100								30
100	100	100	100	100						110	110	31
100	100	100	100	105	..	..	..	..	120	..	115	Mean
100	100	100	100	105	..	..	..	..	120	..	110	Median
23	22	25	24	28	..	1	..	1	6	3	5	Count.

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : (M3000) F2

TABLE 44

Latitude : 10.2° N

Unit :

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2'90	2'80	2'65	2'90	2'90	2'75	U2'75S	2'60	U2'30R	U2'25R	2'20	2'10
2	U2'55F	F	3'00	3'10	F	F	3'00F	2'90	2'60R	U2'35R	2'20	2'15
3	F	F	U2'90F	U3'00F	F	3'10	3'00	2'95	2'70	2'35	U2'10R	U2'20R
4	U2'65S	U2'65S	U2'70S	U2'85S	3'00	3'10	3'15	2'80	2'50	U2'30R	C	C
5	F	F	S	2'90	3'00	3'40	3'05	3'00	2'65	U2'30R	C	C
6	U2'75S	2'70F	2'85F	2'85	F	2'90F	2'95	2'80	2'60	2'25	2'15	2'15
7	J2'70S	42'90S	C	C	C	C	C	C	C	C	C	C
8	F	F	2'70	2'90	3'15F	3'10	U2'95S	2'65	2'40	2'25	2'35	2'15
9	F	F	F	3'00	3'10	3'35	3'00	2'75	2'40	2'35	2'30	2'20
10	U2'80F	U3'05F	U2'85F	3'00	3'15F	3'30F	F	2'85	2'45	2'25	2'20	C
11	U2'85F	2'85	F	F	3'20	3'40	3'10	2'90	2'50	2'25	C	C
12	U2'80F	F	U2'90F	F	F	U3'25F	U3'10F	U2'80S	2'40	2'20	C	C
13	F	F	2'95F	F	F	F	U3'00F	U3'05F	2'75	2'25	2'20	2'15
14	F	U3'00F	U3'05F	F	3'05	3'40	3'00	2'95	2'55	2'15	2'10	2'10
15	F	U3'00F	U3'05F	U3'15F	F	3'15	2'95	2'80	2'40	2'30	2'20	2'15
16	FS	2'85	2'90	2'85	3'10	F	2'90	2'80	2'55	2'15	2'05	2'10
17	FS	F	FS	U2'90F	U3'00F	F	U2'85F	U2'75S	2'55	2'20	2'10	2'10
18	F	2'65	FS	2'85	FS	F	U2'85F	2'70	2'55	2'25	2'00	2'05
19	FS	F	FS	2'90	3'00	2'90	2'80	2'70	2'45	2'30	2'10	2'05
20	FS	F	F	F	FH	2'95	2'85	2'70	2'65	2'40	2'15	2'10
21	F	F	F	F	F	U2'95F	2'75	2'60	2'25	2'20	2'15	2'10
22	F	F	U2'60F	F	2'95	3'15	2'80	2'70	2'55	2'25	2'15	2'05
23	U2'55S	2'50	2'55	2'60	2'55	2'30	2'10H	2'60	2'30	U2'25R	2'20	2'15
24	2'70	2'70	2'70	2'80	2'85	U2'95S	2'90	2'80	2'60	2'40	2'30	2'20
25	2'75	2'80	U2'70S	2'50	2'50	J2'00R	U2'70S	2'70	2'45	2'40	2'20	2'20
26	F	F	U3'00S	F	U3'25F	3'40	2'90	J3'00S	2'55	2'40	2'20	2'25
27	F	U2'90F	2'95	F	2'80	2'80	2'80	2'65	2'50	2'40	2'30	2'25
28	U2'90F	F	2'65	2'50	2'65	U2'70R	2'60H	2'30H	2'50	2'30	2'20	2'15
29	2'80	2'70	2'60	2'65	2'85	3'00	2'90	2'70	2'60	2'40H	C	C
30	U2'75F	U2'90F	2'90	U2'90S	U2'90S	3'05	U2'95S	2'85	2'60	U2'20R	2'15	2'20
31	U2'50F	2'75	2'85	3'05	3'15	3'10	2'85	2'75	2'60	2'40	2'15	2'15
Mean	U2'75	2'80	2'80	2'85	2'95	3'00	2'90	2'75	2'50	2'30	2'20	2'15
Median	U2'75	2'80	2'85	2'90	3'00	3'10	2'90	2'80	2'55	2'30	2'20	2'15
Count	15	17	22	21	21	25	29	30	30	30	25	24

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : (M3000) F2

Unit :

Month : October 1958

TABLE 44—contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
2'10	2'20	2'15	2'15	U2'15R	2'05	U1'95S	U1'90F	F	F	F	F	1
2'10	2'10	2'10	U2'05R	U2'05R	2'10	U2'05S	F	F	F	F	F	2
2'10	2'05	2'10	2'00	1'95	U2'05S	U2'05F	U1'95F	F	U2'30S	U2'40S	2'65	3
C	C	C	C	U2'10S	2'05	S	U1'95F	F	F	F	U2'50F	4
C	C	C	C	C	U2'05R	2'00	D1'90W	F	F	U2'50F	F	5
2'10	2'10	2'10	2'15	2'10	2'10	U2'05S	1'95	2'00	2'20	U2'55S	U2'75S	6
2'15	2'20	2'15	2'15	2'15	2'15	U2'00S	F	F	U2'20F	U2'40F	U2'45F	7
2'05	2'10	2'15	2'20	2'25	2'20	2'00	F	F	F	F	F	8
2'20	2'20	2'25	2'25	2'25	U2'15R	U2'05R	F	F	F	F	F	9
C	C	C	2'20	2'25	2'15	U2'05S	F	F	F	F	F	10
C	C	C	C	C	C	C	C	F	F	F	F	11
C	C	C	C	C	C	2'05	F	F	F	F	F	12
2'20	2'20	2'20	2'25	2'30	2'30H	2'10	F	F	U2'30F	F	F	13
2'05	2'05	2'10	2'15	2'20	2'30	2'15	2'00	F	F	F	U2'50F	14
2'05	2'05	2'00	2'10	2'10	2'10	U2'00S	F	F	F	F	F	15
C	2'05	2'00	2'05	1'95	1'90	2'00	D1'80W	F	F	FS	F	16
2'05	2'05	2'05	2'00	1'95	2'00	2'05	U1'90S	U1'90F	F	F	F	17
2'00	2'00	1'95	1'95	1'95	1'90	1'90	F	F	F	F	F	18
C	2'05	2'00	2'00	1'95	1'90	1'90	1'80	F	F	F	F	19
2'05	2'00	2'00	1'95	1'90	1'90	U1'80S	D1'85W	F	F	F	U2'50F	20
1'95	2'00	1'95	2'00	J1'95S	U2'00S	1'95	D1'80W	F	F	U2'30FS	F	21
U2'10R	2'15	2'15	2'20	2'10	2'00H	U1'95SH	U1'90WH	RS	2'00H	2'40	2'50	22
2'20	2'20	2'20	U2'15S	2'10	U2'05RH	U1'95SH	U2'00WH	RH	RH	U2'50R	U2'70S	23
2'20	2'05	2'00	U2'10S	2'20	2'10	J2'15R	U2'30R	U2'65S	2'65	2'70	2'90	24
2'15	2'20	2'20	2'15	U2'10R	U2'05S	J2'15S	F	F	F	F	F	25
2'20	2'10	2'15	2'20	2'20	U2'15R	S	F	F	F	F	F	26
2'15	2'10	2'10	2'10	2'10	2'05	E1'90W	E1'80W	F	U2'20F	F	U2'60F	27
2'15	2'10	2'10	2'15	2'15	E1'95W	E2'00W	E2'00W	2'20	U2'40R	2'50	2'75	28
C	C	2'10	2'05	2'00	2'05	E1'95W	2'00	U2'15F	F	F	2'45	29
2'15	2'15	2'05	2'10	2'05	2'10	2'10	2'00F	2'10	2'30	2'40	2'50F	30
2'15	2'10	2'05	2'05	2'10	2'10	E2'00W	E1'90W	2'10	F	U2'40S	F	31
2'10	2'10	2'10	2'10	2'10	2'05	U2'00	U1'95	2'15	U2'30	U2'45	U2'60	Mean
2'10	2'10	2'10	2'10	2'10	2'05	U2'00	U1'95	2'10	U2'30	U2'40	U2'50	Median
23	25	26	26	28	29	28	19	7	9	11	13	Count

Sweep 1 Mc. to 25 Mc in 27 seconds.

Characteristic : (M3000) F₂TABLE 44—*contd.*

Latitude : 10.2° N

Unit :

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2'80	2'70	2'80	2'95	2'85	2'75	2'70	2'40	U2'30R	2'20	2'15	2'10
2	F	F	3'05	3'05	F	F	3'00	2'80	2'50	U2'15R	2'20	2'10
3	F	F	F	F	F	2'95	3'00	2'80	2'50	2'10	2'15	U2'15R
4	U2'75S	U2'65S	U2'85S	U2'90S	3'05	3'25	2'95	2'70	2'40	C	C	C
5	U2'70F	2'70	U2'85S	U3'00F	3'30	3'00	3'10	2'90	2'50	C	C	C
6	2'90F	F	2'80	2'95	F	2'90	2'85	2'70	2'45	U2'05R	2'15	2'10
7	J2'75S	C	C	C	C	C	C	C	C	C	C	C
8	U2'65S	2'70	2'85	3'10	3'20	3'00	2'80	2'55	2'25	2'20	2'25	2'05
9	F	3'05	F	3'05	3'20	3'15	2'90	2'55	2'30	2'30	2'20	2'20
10	F	F	2'90	F	3'30	F	J2'95F	2'60	2'30	2'30	C	C
11	F	3'05	3'05	3'20	3'30	2'80	3'00	2'70	2'30	2'30	C	C
12	U3'00F	F	U2'90F	F	U3'25F	U3'10F	U2'90F	2'60	2'20	2'20	C	C
13	U2'85F	F	3'00	F	F	F	U3'00F	2'90F	2'45	2'15	2'10	2'15
14	F	F	U3'00F	3'00	3'25	2'55H	3'00	2'75	2'40	2'10	2'20	2'10
15	U3'00F	F	F	U3'05F	3'20	2'60H	3'00	2'60	2'20	2'20	2'20	2'10
16	FS	FS	FS	3'00	F	F	2'85	2'70	2'40	2'05	2'10	C
17	F	U2'50F	F	2'90	FS	F	U2'80S	2'70	2'35	2'15	2'15	2'10
18	FS	F	U2'60S	FS	F	U3'00F	U2'80S	2'65	2'40	2'10	2'05	2'00
19	F	F	F	FS	3'10	2'85	2'75	2'60	2'30	2'20	2'05	2'00
20	F	U2'40FH	2'60	F	F	2'85	2'80	2'70	2'55	U2'25R	2'10	2'05
21	F	F	F	F	F	U3'00F	U2'65F	2'40	2'20	2'15	2'15	2'05
22	U2'70F	U2'70F	F	U2'90S	U3'00S	2'95	2'80	2'70	2'50	2'10	2'15	2'00
23	2'55	2'55	2'60	2'60	U2'50S	2'30H	U2'60S	2'40	2'20	2'20	2'20	2'15
24	2'70	2'75	2'75	2'80	U2'90S	U3'00S	2'90	2'70	2'40	2'35	2'25	2'20
25	2'80	U2'80S	U2'60S	2'55	2'20	RH	U2'75S	U2'55S	2'40	2'30	2'20	2'20
26	F	F	3'00	F	F	3'00	U3'05S	2'70	2'40	2'35	2'25	U2'20R
27	2'80	F	2'95	F	2'75	2'85	2'70	2'60	2'45	2'35	2'25	2'20
28	FS	FS	2'55	2'50	2'65	2'70	2'50H	RH	2'35	2'30	2'20	2'20
29	2'70	2'60	2'65	2'80	2'95	3'00	2'80	2'65	2'50H	C	C	C
30	U2'80F	2'80F	2'95	U2'85S	2'05	3'10	2'95	2'75	2'40	U2'15R	2'15	2'15
31	2'60	2'80	3'00	3'15	3'15	2'95	2'80	2'85	2'50	2'20	2'10	2'15
Mean .	U2'70	2'70	2'85	2'90	3'00	2'90	2'85	2'65	2'40	2'20	2'15	
Median .	U2'75	2'70	2'85	2'95	3'10	2'95	2'85	2'70	2'40	2'20	2'15	
Count .	17	15	22	20	20	24	30	29	30	27	24	

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : (M3000) F2

TABLE 44—concl'd.

Latitude : 10.2° N

Unit :

Ionospheric Data

Longitude : 77.5° E

Month : October 1958

75.0° E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2'20	2'15	2'15	2'15	2'10	U2'05s	U1'95s	F	F	F	F	F	1
2'10	2'10	2'10	2'10	2'05	U2'05s	U1'95R	F	F	F	F	F	2
2'05	2'10	2'10	2'00	2'00R	U2'10s	U1'95F	U2'00F	U2'25s	2'30	U2'50s	2'65	3
C	C	C	C	2'10	U2'05R	U2'00s	F	F	F	U2'75s	F	4
C	C	C	C	U2'10R	2'05	U1'95s	F	F	F	F	F	5
2'10	2'15	2'15	2'10	2'10	U2'05R	1'90	U2'00F	2'10	U2'40s	U2'60s	J2'65s	6
2'15	2'15	2'15	U2'20R	2'15	2'05	1'95	F	F	FS	F	F	7
2'15	2'10	U2'20R	2'20	2'20	2'10	F	F	F	F	F	F	8
2'20	2'20	2'25	2'25	2'20	2'10	F	F	F	F	F	F	9
C	C	C	2'20	U2'30R	2'10	1'90F	F	F	F	F	F	10
C	C	C	C	C	C	C	F	F	F	F	U2'50F	11
C	C	C	C	C	2'05	U2'00R	F	F	F	F	F	12
2'25	2'20	2'20	2'30	2'30H	2'25	U2'00F	F	F	F	U2'70F	F	13
2'05	2'10	2'10	2'20	2'25	2'20	2'05	F	F	F	F	F	14
2'05	2'05	2'10	2'15	2'15	J2'10R	U2'05s	F	F	F	F	2'80	15
2'10	C	2'00	2'00	1'95	1'95	1'85	F	F	F	U2'30F	FS	16
2'10	2'00	2'00	2'00	1'95	2'00	1'95	1'05	F	F	F	FS	17
1'95	1'95	1'95	1'90	1'90	U1'90s	1'85	F	F	F	2'15	2'30	18
2'00	2'00	2'05	2'00	1'95	1'90	1'85	F	F	F	F	FS	19
2'00	2'00	1'95	1'95	1'90	U1'85s	DI'85W	F	F	F	F	F	20
1'95	2'00	1'95	1'95	U2'00s	U2'00s	DI'90W	F	F	F	F	F	21
2'15	2'15	2'15	2'15	U2'10HR	J2'00HR	U1'90HW	U1'85WH	RS	2'20	U2'50R	U2'65s	22
2'20	2'20	U2'20s	2'15	U2'10s	J2'00HR	W	U2'00RH	RH	U2'40R	RS	2'75	23
2'15	2'05	2'00	2'20	2'15	2'10	J2'25R	2'35	U2'80s	2'70	2'90	U2'75s	24
2'10	2'20	2'20	2'10	U2'10R	2'05	U2'05s	F	F	F	F	F	25
2'20	2'10	2'20	2'30	2'20	U2'10R	U1'95F	F	F	F	F	F	26
2'15	2'10	2'05	2'10	2'10	U2'00R	E1'80W	E1'85W	F	F	U2'25F	F	27
2'10	2'10	2'15	2'15	2'10	2'00	E1'90W	2'10	2'30	2'40	2'60	2'80	28
C	C	2'10	2'05	2'05	2'10	1'95	F	F	F	U2'30F	F	29
2'20	2'10	2'10	2'05	2'05	2'15	2'05	E2'00W	2'10F	2'30	2'50	2'55	30
2'15	2'05	2'05	2'10	2'10	2'05	E1'90W	F	2'15	F	F	F	31
2'10	2'10	2'10	2'10	2'10	2'05	1'95	2'00	2'30	2'40	U2'50	2'65	Mean
2'10	2'10	2'10	2'10	2'10	2'05	1'95	2'00	2'20	2'40	U2'50	2'65	Median
25	24	26	27	29	30	26	9	6	7	12	10	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : foF₂

TABLE 45

Latitude : 10.2° N

Unit : Mc.

Ionospheric Data

Longitude : 77.5° E

Month : November 1958.

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	UI2'4F	F	10'3	F	F	5'1	7'8	11'6	13'7	13'8	C	12'3
2	C	C	F	8'1F	7'8	F	9'3	12'6	14'7	15'6	15'2	14'4
3	10'6	10'6	10'9	10'0	9'4	8'5	10'6	13'6	14'8	15'1	15'4	14'7
4	11'8	11'3	10'4	10'3	9'4	8'2	9'8	12'7	14'5	14'5	14'7	13'7
5	11'6	11'1	10'3	9'5	U9'7S	8'0	9'1	12'3	14'6	15'3	15'7	15'4
6	10'7	F	F	9'4	7'8	5'2	7'7	11'5	13'4	14'0	13'9	13'0
7	F	F	FS	U8'3S	6'9	5'7	U8'2F	UI1'4F	13'3	13'6	13'7	13'6
8	FS	10'3	9'9	U9'0S	U7'2S	5'9	7'7	10'7	12'6	13'6	C	C
9	U8'9F	11'2	10'4	9'0	6'6	4'9	U7'4S	10'9	12'8	13'2	13'4	13'3
10	F	U9'9F	8'8	U8'3F	F	4'6	U7'3S	10'8	12'3	U12'6R	12'8	13'2
11	11'0	F	9'8	9'6	9'1	F	FS	11'6	12'7	14'4	14'8	U14'3R
12	UI1'4F	11'0	10'2	8'6	7'8	6'6	8'0	11'3	13'4	14'0	14'2	14'0
13	UI1'6S	F	UI1'6S	11'0	UI0'0S	U9'2S	10'3	12'1	UI3'0R	12'6	12'8	13'1
14	F	F	F	U9'4FS	U7'6S	5'3	7'6	11'0	UI2'0R	11'5	11'4	11'9
15	F	UI0'8F	F	8'7	5'8	4'1	U7'2S	10'6	UI2'0S	12'6	12'3	12'0
16	F	F	F	F	J5'5R	3'8F	U7'4S	10'8	12'9	13'8	13'6	13'0
17	J13'2R	UI2'0S	U8'1S	5'6	4'8	3'4	6'9	10'6	12'6	13'0	12'6	11'8
18	UI0'7R	F	F	8'5	7'6	6'5	7'8	11'4	13'6	14'6	14'6	13'6
19	F	F	U9'4F	F	F	U8'6F	10'2	11'6H	12'2	13'2	13'6	14'0
20	F	F	U8'8F	8'5F	F	5'7F	F	10'7	12'2	12'4	12'7	12'4
21	F	F	F	6'8	F	F	F	10'7	12'1	12'8	12'8	12'8
22	F	F	8'6	U6'3R	4'0	3'0	6'8	10'5	12'7	13'6	14'1	14'0
23	F	F	F	7'4	F	F	F	10'9	12'8	12'7	12'6	12'4
24	F	9'3FH	J8'4F	F	F	U7'3F	8'3F	10'8	12'3	13'2	13'4	13'6
25	11'4	11'4	10'1	U9'2S	9'6	8'1	8'9	11'9	13'7	13'7	14'3	14'8
26	11'0	F	UI1'4F	11'0	F	11'0	10'8	12'7	13'7	14'1	14'2	14'0
27	F	F	F	F	8'5	6'6	F	11'2	12'3	12'8	13'0	13'3
28	F	F	F	10'4	U9'7S	8'8	8'5	11'6	13'1	14'0	14'6	14'1
29	12'3	12'7	11'8	10'8	9'8	8'0	8'4	UI1'6S	13'6	13'7	13'2	12'8
30	UI1'4C	UI1'5S	10'8	10'1	8'7	6'2	U7'4S	10'8	12'6	12'8	12'4	12'0
Mean	11'3	11'0	10'0	9'0	7'9	6'5	8'4	11'4	13'1	13'6	13'6	13'4
Median	11'4	11'1	10'2	9'0	7'8	6'4	8'0	11'4	12'8	13'6	13'6	13'3
Count	15	13	19	25	22	26	25	30	30	30	28	29

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : fo F2

Unit : Mc

Month : November 1958

TABLE 45—contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
12.1	12.5	12.3	11.7	11.2	10.8	U10.1S	9.3	F	F	F	U9.8F	1
12.9	12.8	12.7	12.6	U12.2R	12.4	11.4	U9.8S	U10.6F	F	F	U10.4F	2
14.1	13.1	12.1	11.6	10.9	10.4	9.6	U9.0F	9.6	10.8	11.1	U11.6S	3
13.2	12.8	12.3	12.1	11.6	11.4	10.4	9.2	U9.5S	10.0	U10.4F	11.0	4
15.1	C	C	14.5	13.7	13.4	11.4	F	F	F	F	F	5
12.7	12.7	12.5	12.2	U11.7S	11.6	U10.6W	F	F	F	F	F	6
12.9	13.3	13.4	13.3	12.7	12.4	U11.2S	F	U8.6F	F	FS	F	7
C	C	C	12.4	U11.8S	C	C	F	F	F	F	F	8
12.9	U12.6R	12.4	U11.9S	11.6	11.3	10.6	8.7	U8.0F	F	F	F	9
13.6	14.3	14.7	14.3	13.9	13.7	12.5	U8.7F	F	F	U9.3S	F	10
15.5	15.4	14.8	14.8	14.7	14.0	12.7	F	F	F	F	12.3	11
14.2	14.3	14.2	13.8	13.2	J12.1R	U11.8S	F	F	F	F	U11.5F	12
13.6	14.0	U14.2R	U13.9R	U13.8R	U13.8R	R	U12.2F	F	F	F	F	13
C	C	J14.2R	14.8	15.0	U14.5S	J12.2R	F	F	F	F	F	14
12.0	12.9	U13.2R	U13.2RS	J13.0R	12.4	U11.5R	F	F	F	F	F	15
13.3	13.8	13.8	13.4	13.4	U12.8R	U11.6S	10.6	U10.6F	U11.5F	U12.2HR	J13.0R	16
11.9	12.4	12.6	U12.3R	11.6	11.3	10.4	F	F	U8.8F	F	U10.8R	17
12.6	12.0	11.6	U11.5S	U11.6S	J12.0R	U12.0S	U10.6F	FS	F	F	F	18
14.4	14.7	14.7	14.4	14.0	R	11.4H	8.8	F	F	F	J7.6F	19
11.8	11.8	12.0	12.0	U11.8S	11.4	U10.2S	8.4	F	F	F	F	20
12.8	12.8	12.7	12.6	12.2	11.6	10.4	8.5	F	F	F	8.8F	21
13.8	13.8	13.4	12.7	11.6	10.4	8.8	F	F	F	U6.7F	F	22
12.0	11.8	11.7	12.2	U11.8S	U11.8S	10.9	10.4	8.5F	J7.8F	U7.7F	F	23
13.2	12.9	12.3	12.4	11.6	10.7	9.6	8.7	8.6	U11.2R	J12.2S	U11.7S	24
14.8	14.6	14.1	U13.4R	U12.6R	11.0	10.7	10.4	9.1	F	F	U9.4S	25
13.6	13.5	13.2	13.2	12.8	13.0	U13.1R	R	RS	10.8	F	F	26
13.3	13.6	13.5	13.4	12.3	U11.8S	U11.6S	R	F	F	F	F	27
12.8	11.9	11.4	11.2	10.8	10.7	10.8	10.6	11.0	11.6	11.4	11.4	28
12.7	12.0	11.7	U11.6S	12.0	U11.6S	11.1	10.8	10.0	U9.5S	U9.6S	10.8	29
12.5	12.6	12.8	12.6	U11.8S	U11.5S	10.2	9.2	F	F	F	U8.0F	30
13.2	13.1	13.0	12.9	12.4	12.0	11.0	9.7	9.5	U10.2	U10.1	U10.5	Mean
13.0	12.9	12.8	12.6	12.1	11.7	11.0	9.2	9.5	U10.8	U10.4	U10.8	Median
28	27	28	30	30	28	28	18	11	9	9	15	Count

Sweep 1 Mc to 25 Mc in 27 Seconds.

Characteristic : fo F2

TABLE 45—*contd.*

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : November 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	F	U9.4F	F	7.1F	5.8H	9.9	13.0	14.1	13.4	12.6	12.2
2	C	9.6	8.8F	F	F	7.5F	10.8	13.8	15.2	15.5	14.8	13.6
3	U10.5S	11.0	10.3	9.9	9.1	8.8	12.3	14.1	15.1	15.2	15.4	14.3
4	11.4	10.8	10.1	10.2	8.8	8.2	11.4	13.6	14.6	14.8	14.5	13.6
5	11.7	10.6	10.1	9.8	8.8	U7.3S	10.8	13.7	C	15.5	15.6	15.1
6	U10.4F	F	F	9.0	6.3	5.7H	9.7	12.6	13.6	13.8	13.6	12.7
7	F	F	U8.5F	7.5	6.3	U5.9S	U9.9F	12.6	13.6	13.8	13.6	13.3
8	U9.4F	10.4	U9.3S	8.3	6.4	6.1	U9.6S	J11.9S	13.2	13.7	C	C
9	U10.3F	11.4	U9.8S	7.9	5.9	5.5	U9.3S	12.1	13.0	13.3	13.5	13.2
10	F	U9.7F	F	F	5.8	5.3	9.2	11.7	12.7	12.7	13.2	13.3
11	J11.3S	10.4	F	9.3	F	U8.2F	11.0	12.3	13.8	14.8	U14.2R	14.8
12	U11.6S	10.9	U9.3S	8.4	7.5	6.1	9.7	12.5	13.8	14.3	14.2	13.9
13	F	J12.1R	11.2	U10.4S	U9.8S	9.0	11.4	12.8	12.8	J12.6R	12.8	13.4
14	F	F	F	F	6.5	U5.3HS	U9.7S	U11.9S	11.8	11.2	11.8	C
15	F	U10.4SF	U9.4S	6.4	4.7	5.0H	U9.2S	11.4	12.4	12.4	12.0	12.0
16	F	U10.7S	8.4	U7.2SF	U5.0HR	4.9H	9.4	J12.2R	C	13.8	13.2	J13.1R
17	12.7	10.4	6.4	5.0	4.0	4.6H	U9.2S	11.6	13.0	13.0	12.2	11.9
18	U10.0F	F	8.4	8.2	7.3	6.0	U9.8S	12.8	13.8	14.6	U14.0R	U12.8R
19	F	F	9.1	8.4	F	U9.6F	11.0	11.5	12.6	13.4	13.6	14.2
20	8.1F	F	U8.5F	F	U6.3F	F	U9.3F	11.5	11.8	12.6	12.6	12.3
21	F	F	U7.8F	U6.2F	F	F	9.1	11.7	12.7	12.8	12.8	12.8
22	10.5F	U9.3F	7.6	5.1	3.4	4.4H	9.1	11.8	13.5	14.0	14.0	14.0
23	F	F	8.0	U6.4F	F	F	9.2	12.1	12.8	12.6	12.4	12.0
24	FH	U9.6FH	F	F	7.4F	F	U9.9F	11.4	12.6	13.4	13.4	13.4
25	11.3	11.0	9.7	9.4	U9.4S	7.6	10.7	13.0	13.7	14.4	14.6	14.8
26	F	11.0F	11.4	F	F	10.0	12.0	13.4	14.0	14.1	14.3	13.8
27	F	F	F	U9.3F	7.8	F	F	11.6	12.5	13.0	13.0	13.4
28	F	F	F	10.4	U9.2S	7.8	U10.2S	12.3	14.6	14.4	14.7	14.0
29	12.6	12.1	11.0	10.4	9.1	6.8	U10.2S	12.7	13.7	13.7	12.9	12.8
30	11.6	11.1	10.4	9.9	7.6	5.7	U9.3S	U11.9S	12.7	12.8	12.4	12.3
Mean	10.9	10.7	9.3	8.4	7.1	6.7	10.1	12.4	13.3	13.7	13.5	13.3
Median	11.3	10.7	9.3	8.4	7.2	6.1	9.9	12.2	13.4	13.7	13.5	13.4
Count	15	19	23	23	24	25	29	30	28	30	29	28

Sweep 1/1 Mc to 25 Mc in 27 seconds.

Characteristic : fo F2

Unit : Mc

Month : November 1958

TABLE 45—concl.

Ionospheric Data :

75°0' E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
12'2	12'4	12'1	11'5	10'8	U10'48	U9'6s	U9'0F	F	F	F	C	1
12'9	12'7	12'6	12'6	12'5	U11'8s	10'5	9'9	U9'4s	10'4F	U10'5F	10'7	2
13'6	12'6	11'8	11'3	10'8	10'4	9'5	9'1	U9'8s	10'8	U11'7s	11'7	3
12'8	12'5	12'0	12'0	U11'6s	11'0	U9'6s	U9'1F	10'0	U10'4F	10'4	11'1	4
C	C	C	13'8	13'3	12'7	U9'9W	F	F	F	F	F	5
12'7	12'6	12'3	12'4	U11'7s	11'4	U9'5W	F	F	F	F	F	6
13'3	13'3	13'4	13'0	12'7	U11'8s	U10'1s	U8'8F	F	FS	FS	F	7
C	C	C	12'0	U11'8s	C	9'6	F	F	F	F	F	8
12'7	12'7	12'2	U11'7s	U11'5s	11'0	9'6	U8'3F	U7'4F	F	F	F	9
13'8	14'9	14'6	14'3	13'8	R	U10'6F	F	F	F	U10'3F	F	10
13'3	13'2	14'8	14'6	14'5	13'6	U11'5W	F	F	F	F	F	11
14'5	14'4	13'9	13'3	U12'7R	12'0	J11'6R	F	F	F	F	U12'2F	12
13'7	14'2	U14'2R	14'0	U13'8R	R	R	F	F	F	F	F	13
13'1	14'0	14'6	15'0	U14'6s	U13'8s	11'0	F	F	F	F	F	14
12'6	12'8	U13'2R	J13'2R	12'8	J12'1R	F	F	F	F	F	F	15
13'6	13'8	13'8	U13'4R	13'0	12'4	10'9	U10'6F	F	12'7	U13'0HR	13'5	16
12'2	12'4	12'4	U11'9s	12'6	S	U9'2s	F	F	F	U10'8F	U10'8R	17
12'4	11'7	11'5	11'6	U11'6s	J12'2R	U11'6s	10'3	F	F	F	F	18
14'7	14'8	14'5	U13'8R	13'7	11'5	9'4	U8'2F	F	F	J7'4F	F	19
11'9	11'9	12'3	U11'9s	11'4	10'9	9'4	U8'0F	F	F	F	U9'5F	20
12'8	12'6	12'8	12'4	12'6	11'0	9'4	F	F	F	F	8'6	21
13'8	13'6	12'8	J12'0R	10'8	9'6	7'8	F	F	F	F	F	22
11'9	11'9	12'0	J11'8s	J11'8s	11'4	10'7	9'4	F	U8'0F	F	F	23
13'1	12'4	11'9	U11'7s	10'9	U10'5s	9'2	8'2EH	10'5H	J12'2s	12'2	11'6	24
14'8	14'6	13'8	12'8	11'8	10'8	10'2	9'6	U9'0F	F	8'8	U10'6F	25
13'6	13'4	13'3	13'0	13'0	U13'1R	U13'0R	U12'7R	10'8	F	F	F	26
13'6	13'5	13'5	U12'6R	U12'0s	U11'6s	11'4	F	F	F	F	F	27
12'6	11'6	12'4	10'9	10'7	10'3	10'6	10'8	11'4	11'6	11'4	11'6	28
12'5	11'8	11'6	12'0	12'1	U11'4s	11'0	10'6	U9'7s	U9'6s	U10'8s	11'1	29
12'6	12'7	12'8	U12'3R	U11'8s	10'8	U9'5s	F	F	F	F	F	30
13'2	13'1	12'9	12'6	12'2	11'5	10'2	9'5	U9'8	U10'7	U10'6	11'1	Mean
13'0	12'7	12'8	12'4	11'8	11'4	10'0	9'2	U9'8	U10'6	U10'5	11'1	Median
28	28	28	30	30	26	28	16	9	8	11	12	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : f_oF_1

TABLE 46

Latitude : 10.2°N

Unit : Mc

Ionospheric Data

Longitude : 77.5°E

Month : November 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	C	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	E	L
6								L	L	L	L	L
7								LH	L	L	L	L
8								L	L	L	C	C
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
Mean												
Median												
Count												

Sweep : Mc. to 25 Mc. in 27 seconds.

Characteristic: fo F₁

TABLE 46—contd.

Latitude: 10.2°N

Unit: Mc

Ionospheric Data

Longitude: 77.5°E

Month: November 1958

75.0°E Mean Time

Range: 1000-5000 : 110000

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L								11
L	L	L	L	L								22
L	L	L	L	L								33
L	L	L	L	L								44
L	C	C	L	L								55
L	L	L	L	L								66
L	L	L	L	L								77
L	C	C	L	L								88
L	L	L	L	L								99
L	L	L	L	L								1000
L	L	L	L	LH								1111
L	L	L	L	L								1222
L	L	L	L	L								1333
L	C	C	L	L								1444
L	L	L	L	L								1555
L	L	L	L	L								1666
L	L	L	L	L								1777
L	L	L	L	L								1888
L	L	L	L	L								1999
L	L	L	L	L								2000
L	L	L	L	L								2111
L	L	L	L	L								2222
L	L	L	L	L								2333
L	L	L	L	L								2444
L	L	L	LH	L								2555
L	L	L	L	L								2666
LH	L	L	L	L								2777
L	L	L	L	L								2888
L	L	L	L	L								2999
L	L	L	L	L								3000
												Mean
												Median
												Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic of F₁

TABLE 46—contd.

Latitude: 10.2° N

Unit: Mc (m.p.g.)

Ionospheric Data

Longitude: 77.5° E

Month: November 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
11								L	L	L	L	L
22							L	L	L	L	L	L
30							L	L	L	L	L	L
41							L	L	L	L	L	L
50							L	L	L	L	L	L
60							L	L	L	L	L	L
70							L	L	L	L	L	L
80							L	L	L	L	L	L
90							L	L	L	L	L	L
1000							L	L	L	L	L	L
1100							L	L	L	L	L	L
1200							L	L	L	L	L	L
1300							L	L	L	L	L	L
1400							L	L	L	L	L	L
1500							L	L	L	L	L	L
1600							L	L	L	L	L	L
1700							L	L	L	L	L	L
1800							L	L	L	L	L	L
1900							L	L	L	L	L	L
2000							L	L	L	L	L	L
2100							L	L	L	L	L	L
2200							L	L	L	L	L	L
2300							L	L	L	L	L	L
2400							L	L	L	L	L	L
2500							L	L	L	L	L	L
2600							L	L	L	L	L	L
2700							L	L	L	L	L	L
2800							L	L	L	L	L	L
2900							L	L	L	L	L	L
3000							L	L	L	L	L	L
Mean												
Median												
Count												

Sweep: 1 Mc to 25 Mc in 27 seconds.

Characteristic : fo F₁TABLE 46--*continued*.

Latitude : 10.2°N

Unit : Mc

Ionospheric Data

Longitude : 77.5°E

Month : November 1958

75.0°E Mean Time

Observer : J. H. H. H.

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
L	L	L	L	L								4
C	C	C	L	L								5
L	L	L	L	L								6
C	C	C	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	LH	L								11
L	L	L	L	L								12
L	L	L	L	L								13
LH	LH	L	L	L								14
L	L	L	L	L								15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	LH	L								25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
												Mean
												Median
												Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic: foE

TABLE 47

Latitude: 10° 2' N

Unit: Mc.

Ionospheric Data

Longitude: 77° 5' E

Month: November 1958

75° 0' E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3.1	B	A	C	A
2								3.0	B	A	A	A
3								2.9	3.5	A	U4.0R	A
4								A	A	A	A	A
5								A	A	A	A	A
6								A	A	A	A	A
7								A	A	A	A	A
8								A	A	A	C	C
9								U2.8R	A	A	A	A
10								A	A	A	A	A
11								A	3.4	A	A	A
12								A	A	A	A	A
13								A	A	A	A	A
14								A	A	A	A	A
15								A	A	A	A	A
16								2.8	A	A	A	A
17								A	A	A	A	A
18								2.8	A	A	A	A
19								2.7	A	A	A	A
20								U2.7A	A	A	A	A
21								A	A	A	A	A
22								2.8	A	3.7	4.0	4.0
23								2.9	A	A	A	A
24								A	A	A	A	A
25								3.0	A	A	A	A
26								U3.0A	A	A	A	U4.2A
27								A	A	A	A	A
28								2.9	U3.5A	A	B	A
29								2.9	A	A	A	A
30								U3.0R	A	U3.9A	A	A
Mean								2.9	..	..	..	..
Median								2.9	..	..	..	..
Count								15	3	2	2	2

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : fo E

Unit : Mc

Month : November 1958

TABLE 47—contd.

Ionospheric Data

75°0° E Mean Time

Latitude : 10°2° N

Longitude : 77°5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A								1
A	u3'9R	A	A	A								2
A	A	B	A	A								3
A	C	C	A	A								4
				3'0								5
A	A	A	A	u3'0A								6
A	A	A	A	A								7
C	C	C	A	A	C							8
A	A	A	A	A	A							9
A	3'9	u4'0A	A	A								10
A	A	A	A	A								11
A	A	A	A	A								12
A	A	A	A	A								13
C	C	A	A	u2'8RH	A							14
A	A	u3'6R	A	A								15
A	A	A	A	A								16
A	A	A	A	A								17
A	A	A	A	A								18
A	A	A	A	2'8	A							19
				A								20
A	A	A	A	3'0								21
4'2	3'9	A	A	A	F							22
A	A	A	A	A								23
A	A	A	A	A								24
A	A	u4'0A	A	A								25
u4'0A	A	A	A	A								26
B	A	A	A	A								27
A	A	A	A	A								28
A	A	A	A	A								29
A	A	A	A	A								30
	..	..	..	2'9								Mean
	..	..	..	3'0								Median
2	3	3	...	5								Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic : fo E

TABLE 47—*contd.*

Latitude : 10° 2' N

Unit : Mc

Ionospheric Data

Longitude : 77° 5' E

Month : November 1958

75° 0' E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2'6H	A	A	A	A	A
2							2'6	U3'OR	B	A	A	A
3							2'6H	3'2	A	3'9	A	A
4							..	U3'2A	A	A	A	A
5							2'6	A	C	A	A	A
6							A	A	A	A	A	A
7							2'6	A	B	A	A	A
8							A	A	A	A	C	C
9							R	A	A	A	A	A
10							U2'5R	A	A	A	A	A
11							A	U3'2R	3'4	A	A	A
12							A	A	A	A	A	A
13							A	A	A	A	A	A
14							A	A	A	A	A	C
15							A	A	A	A	A	A
16							U2'4R	A	C	A	A	A
17							A	A	A	A	A	A
18							2'4H	A	A	A	A	A
19							2'4	A	A	A	A	A
20							2'5	A	A	A	A	A
21							2'3	A	A	A	A	A
22							2'3	A	3'4	3'8	4'1	4'1
23							2'4	A	A	A	A	A
24							A	A	A	A	A	A
25							2'5	U3'2R	A	A	A	A
26							U2'5R	A	U3'7A	A	A	A
27							A	A	A	A	A	A
28							..	A	A	A	A	A
29							2'5	A	A	A	A	A
30							2'5	U3'3A	A	A	A	A
Mean.							2'5	U3'2	..	..	..	..
Median							2'5	U3'2	..	..	..	..
Count							17	6	3	2	1	1

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : fo E

Unit : Mc

Month : November 1958

TABLE 47—*contd.*

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
B	A	A	A	A								1
A	A	A	A	A								2
B	A	A	A	A								3
A	A	A	A	A								4
C	C	C	B	2.7								5
A	A	A	A	..								6
A	A	A	A	A								7
C	C	C	A	A								8
A	A	A	A	A								9
U3.9R	4.0	A	A	A								10
A	A	A	A	A								11
A	A	A	A	A								12
A	A	A	A	A								13
A	A	A	3.2H	F								14
A	U3.8R	A	A	A								15
A	A	A	A	A								16
A	A	A	A	A								17
A	A	A	A	A								18
A	A	A	U3.1A	A								19
A	A	A	A	F								20
A	A	A	A	2.7								21
4.0	A	A	A	A								22
4.0	A	A	A	2.8								23
A	A	A	A	F								24
B	U4.0A	A	A	A								25
A	A	A	A	..								26
A	A	A	A	..								27
A	B	A	A	A								28
A	A	A	A	U2.7F								29
A	A	A	A	A								30
..	..	..	..	..								Mean
..	..	..	..	..								Median
3	3	..	2	4								Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : fo Es

TABLE 48

Latitude : 10° 2' N

Unit : Mc

Ionospheric Data

Longitude : 77° 5' E

Month : November 1958

75° 0' E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								8.0	9.7	10.4	G	11.4
2	C	C						G	8.2	9.6	11.0	11.2
3								G	7.8	11.0	G	11.6
4								6.6	9.0	10.8	11.0	11.8
5								7.9	8.8	9.6	10.8	10.4
6								8.4	9.6	11.0	11.4	11.4
7								7.8	8.9	9.8	10.7	10.8
8								8.6	10.3	10.7	C	C
9								8.6	10.1	10.8	11.1	10.8
10								8.4	10.6	10.9	11.8	10.8
11					3.7			9.7	G	9.6	11.1	8.5
12								8.4	9.6	10.4	11.2	11.2
13								8.6	9.0	10.4	11.0	10.0
14								8.6	10.4	10.6	11.0	11.0
15	4.6	4.6						8.2	10.6	10.2	11.6	11.8
16								G	8.8	10.1	11.0	11.0
17								7.0	9.0	9.6	10.8	10.0
18								4.0	8.8	8.6	11.0	11.0
19	5.6	7.0						6.8	8.8	9.8	9.4	12.6
20								6.6	8.4	9.8	10.2	10.8
21								6.8	8.4	8.4	9.0	8.8
22								G	8.6	8.6	9.0	7.4
23								6.8	8.8	9.8	10.8	10.2
24				2.3				8.3	9.4	9.8	10.8	10.8
25							3.6	G	7.6	8.0	8.6	11.6
26								8.2	8.8	9.2	10.4	9.0
27		4.6						7.0	9.0	10.4	9.8	8.4
28		3.6						6.0	8.0	8.6	G	11.0
29			5.6					G	9.0	10.6	11.6	11.0
30		4.2						G	9.0	10.8	11.4	11.6
Mean	..	4.8	..	..	..	..	..	7.6	9.0	9.9	10.7	10.6
Median	..	4.6	..	..	..	..	..	7.0	9.0	10.0	11.0	11.0
Count	2	5	1	1	1	..	1	30	30	30	28	29

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : fo Es

TABLE 48—*contd.*

Unit : Mc

Ionospheric Data

Month : November 1958

75°0° E Mean Time

Latitude : 10°2° N

Longitude : 77°5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
11.2	11.2	11.2	11.4	8.8								1
11.6	10.5	10.8	9.8	8.4								2
11.2	10.8	10.6	11.0	9.4	6.8			2.2				3
11.4	11.6	11.0	10.8	8.0							8.6	4
11.2	C	C	8.6	7.8					4.4			5
11.7	11.2	10.8	10.8	8.4								6
10.6	10.3	11.2	10.6	8.3								7
C	C	C	10.3	8.6	C	C			2.1			8
11.6	10.6	10.9	10.6	8.8	6.9							9
8.7	G	9.6	11.0	8.4								10
8.1	9.0	8.6	8.0	8.1								11
10.2	10.3	9.1	8.8	8.3								12
8.8	9.0	9.8	8.6	6.8						4.1		13
C	C	8.0	6.4	G	3.8							14
11.0	8.6	G	8.5	8.0								15
10.0	8.8	7.0	8.0	8.0								16
11.2	11.0	11.0	10.3	8.2	7.0				8.0			17
11.2	11.0	10.4	10.0	8.0	S						6.8	18
9.8	8.2	7.8	9.0	6.8	G						3.2	19
11.0	10.8	9.4	9.2	7.3								20
9.4	9.8	9.4	8.5	7.4								21
8.8	10.2	9.7	9.4	8.4	3.8							22
10.6	9.8	9.0	9.3	7.8								23
10.8	10.4	9.4	9.4	7.8								24
7.8	7.2	8.4	11.0	8.0								25
10.0	10.2	10.4	9.6	8.6								26
9.2	11.0	11.0	11.0	8.0								27
11.6	11.2	11.0	10.6	8.4	8.0	3.8						28
11.6	11.0	11.0	10.6	8.0						3.2	5.6	29
11.4	11.0	11.0	10.2	8.2								30
10.3	10.2	9.9	9.7	8.1	6.0	..	..	..	..	..	..	Mean
10.9	10.4	10.1	9.9	8.0	6.8	..	..	..	..	..	..	Median
28	27	28	30	30	7	1	..	1	3	2	4	Count

Sweep 1 Mc to 25 Mc in 27 seconds.

Characteristic : fo Es

TABLE 48—*contd.*

Latitude : 10°2' N

Unit : Mc

Ionospheric Data

Longitude : 77°5' E

Month : November 1958

75°0' E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	C						G	10'4	10'0	11'6	11'2	11'0
2							G	G	9'0	10'4	11'0	10'6
3							G	G	10'8	G	11'0	11'8
4							..	8'0	9'2	11'8	11'0	11'6
5							G	8'6	C	10'6	10'8	10'6
6							6'6	9'2	10'6	11'2	12'0	11'7
7							G	8'2	10'2	10'6	11'2	10'5
8							6'9	9'1	10'1	10'9	C	C
9							7'8	9'5	9'8	10'9	11'3	11'3
10							7'2	9'1	10'7	11'9	11'4	9'3
11				2'3			7'0	G	G	11'2	11'3	8'2
12							7'2	9'6	9'8	11'0	10'9	11'0
13							6'6	10'08	10'0	11'0	10'6	10'0
14							8'2	10'2	10'2	11'0	11'0	C
15	3'0						6'2	9'0	9'2	11'4	11'4	11'8
16							G	8'6	C	10'6	11'2	10'0
17							6'6	9'0	9'0	10'4	10'6	10'0
18							G	7'0	9'0	10'0	11'0	11'0
19	3'2	3'8	7'8				5'8	6'8	9'2	9'4	10'0	13'0
20							10'68	8'2	9'2	10'6	11'0	10'8
21							6'2	8'5	8'5	9'8	9'2	9'8
22							G	7'0	8'4	8'8	8'4	G
23							G	8'6	9'0	10'8	10'8	10'4
24				3'2			6'6	8'8	10'2	11'2	9'4	10'4
25					6'0		G	G	8'4	7'0	10'0	12'0
26							G	8'6	8'8	9'4	10'2	9'4
27	3'4	7'0	6'0				G	8'8	9'6	9'0	9'0	12'0
28		3'2	3'2				..	7'0	9'6	11'0	10'6	11'0
29							G	8'0	10'4	11'0	10'8	11'2
30	4'2						G	8'8	10'0	11'4	11'6	11'2
Mean	..	..	..	..	..	..	6'8	8'6	9'6	10'5	10'7	10'8
Median	..	..	..	..	..	..	..	8'6	9'6	10'8	11'0	10'9
Count	4	3	3	2	1	..	28	30	28	30	29	28

Sweep : Mc to 25 Mc in 27 seconds.

Characterstic : fo Es

Unit : Mc

Month : November 1958

TABLE 48—concl'd.

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
10'4	12'0	10'6	9'2	8'6							C	1
10'8	11'2	10'4	8'7	7'8				3'7				2
11'6	11'1	10'8	10'0	8'6						4'2		3
11'4	11'8	11'4	9'0	7'8				2'8				4
C	C	C	G	8'0								5
11'4	10'6	10'6	9'2	8'0								6
10'4	10'4	10'8	8'6	7'6								7
C	C	C	8'8	8'1	C							8
11'4	10'8	11'0	9'1	7'9								9
G	8'2	10'6	9'1	8'0								10
8'9	9'6	9'8	7'6	7'8					4'2			11
10'6	9'8	8'3	8'5	8'0					6'4			12
10'0	10'2	9'0	7'4	U7'08								13
10'2	9'0	6'6	G	6'0						2'0		14
10'5	G	8'0	7'4	U8'08					2'0			15
11'0	9'2	9'0	7'8	7'4					3'6			16
10'6	10'6	10'8	8'6	8'0							5'6	17
11'0	10'6	9'4	8'4	7'4							4'2	18
8'8	7'6	9'5	7'9	6'8								19
11'0	10'2	10'2	7'6	7'4						2'6		20
9'6	9'8	9'4	8'2	6'8								21
8'6	9'8	8'8	8'6	6'8								22
10'6	10'2	9'2	8'3	6'6								23
11'4	10'2	9'6	8'2	7'0								24
G	7'6	10'2	8'6	8'2								25
9'0	10'6	10'0	9'4	6'8								26
9'4	11'0	10'6	9'0	7'0								27
11'2	11'0	11'0	9'2	7'0	4'0							28
11'2	11'6	10'2	9'0	7'0						4'4		29
12'0	11'0	10'6	8'6	8'0							2'0	30
10'5	10'2	9'9	8'6	7'5	..	..	..	..	..	..	..	Mean
10'6	10'3	10'2	8'6	7'7	..	..	..	..	..	..	..	Median
28	28	28	30	30	1	..	..	2	4	4	3	Count

Sweep 1 Mc to 25 Mc in 27 seconds

Characteristic : fbEs

TABLE 49

Latitude : 10° 2' N

Unit : Mc.

Ionospheric Data

Longitude : 77° 5' E

Month : November 1958

75° 0' E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3'1	4'0	4'1	C	4'5
2	C	C						..	4'1	4'3	4'4	4'5
3								..	3'6	4'2	..	4'4
4								3'0	3'6	4'0	4'2	4'3
5								3'0	3'6	4'1	4'2	4'5
6								3'0	3'5	4'1	4'2	4'3
7								3'0	3'6	4'2	4'2	4'3
8								2'9	3'6	3'9	C	C
9								3'0	3'5	4'0	4'1	4'5
10								2'9	3'6	4'0	4'3	4'4
11					1'8			3'0	..	3'9	4'1	4'3
12								2'9	3'6	4'0	4'2	4'4
13								2'8	3'4	4'0	4'0	4'2
14								3'0	3'6	4'0	4'2	4'4
15	1'9	1'9						2'9	3'4	4'0	4'2	4'2
16								..	3'6	4'0	4'4	4'4
17								3'0	3'4	3'8	4'0	4'2
18								3'0	3'5	3'8	4'0	4'2
19		2'7						2'9	3'5	4'0	4'1	4'3
20								3'0	3'5	4'0	4'1	4'3
21								3'0	3'5	3'8	4'0	4'2
22								..	3'4	3'8	4'2	4'5
23								3'0	3'5	4'0	4'2	4'4
24				2'0				3'0	3'6	4'0	4'2	4'4
25								..	3'6	4'0	4'2	5'0
26								3'0	3'6	4'2	4'2	4'4
27		2'4	2'4					3'0	3'6	4'0	4'4	4'7
28		2'2						3'0	3'5	4'0	..	4'4
29									3'5	3'8	4'2	4'4
30		2'4							3'8	4'0	4'4	4'6
Mean	..	2'3	..	..	..	..	..	3'0	3'6	4'0	4'2	4'4
Median	..	2'4	3'0	3'6	4'0	4'2	4'4
Count	1	5	1	1	1	23	29	30	26	29

Sweep 1 Mc. to 25 Mc. in 27 seconds.

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Characteristic: fbEs

TABLE 49

Latitude: 10°2'N

Unit: Mc

Ionospheric Data

Longitude: 77°5'E

Month: November 1958

75°0' E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
4.5	4.4	4.1	3.6	3.4								1
4.4	4.4	4.1	3.7	3.2								2
4.4	4.3	4.2	3.7	3.2	2.4							3
4.4	4.3	4.0	3.5	3.2					1.9		2.8	4
4.5	C	C	3.7	3.1								5
4.4	4.3	4.0	3.5	3.2								6
4.4	4.3	4.0	3.6	3.1					2.1			7
C	C	C	3.6	3.3	C	C						8
4.3	4.2	4.0	3.6	3.1	2.4							9
4.3		4.1	3.7	3.2								10
4.3	4.2	3.9	3.6	3.1								11
4.3	4.1	3.8	3.4	3.1								12
4.2	4.2	4.0	3.6	3.2						2.2		13
C	C	4.0	3.5		2.4							14
4.2	4.0		3.5	3.0								15
4.2	4.2	4.0	3.5	3.2								16
4.2	4.1	4.0	3.6	3.0	2.4				3.0			17
4.3	4.2	4.0	3.6	3.2	2.3						2.3	18
4.4	4.1	3.8	3.4	3.0							2.4	19
4.2	4.2	3.9	3.6	3.0								20
4.3	4.1	3.9	3.6	3.0								21
	4.2	4.0	3.6	3.1								22
4.3	4.4	4.0	3.6	3.0								23
4.5	4.4	4.0	3.6	3.1								24
4.6	4.5	4.1	3.8	3.2								25
4.4	4.3	4.0	3.6	3.4								26
4.6	4.4	4.0	3.6	3.3								27
4.5	4.2	4.2	3.6	3.2	3.2	2.4						28
4.4	4.3	4.2	3.8	3.2								29
4.4	4.4	4.3	3.8	3.2							2.4	30
4.4	4.2	4.0	3.6	3.2	2.5							Mean
4.4	4.2	4.0	3.6	3.2	2.4							Median
27	26	27	30	29	6	1			3	1	4	Count

Characteristic : fbEs

TABLE 49—Contd.

Latitude : 10°2' N

Unit : Mc.

Ionospheric Data

Longitude : 77°5' E

Month : November 1958

75°0' E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	C						..	3.4	4.0	4.2	4.5	4.5
2							..	..	4.0	4.3	4.5	4.5
3							..	..	4.0	..	4.4	4.4
4							..	3.3	3.9	4.2	4.3	4.4
5							..	3.3	C	4.0	4.4	4.4
6							2.6	3.3	3.8	4.1	4.2	4.4
7							..	3.3	4.2	4.0	4.3	4.4
8							2.5	3.2	3.7	4.0	C	C
9							2.6	3.3	3.9	4.0	4.3	4.6
10							2.6	3.4	3.8	4.2	4.4	4.4
11				1.9			2.5	..	..	4.1	4.2	4.4
12							2.6	3.3	3.8	4.1	4.3	4.4
13							2.5	3.2	3.6	4.0	4.0	4.2
14							2.6	3.4	4.0	4.1	4.2	C
15	1.7						2.5	3.2	3.6	4.0	4.2	4.2
16							..	3.2	C	4.0	4.4	4.4
17							2.5	3.2	3.6	4.0	4.2	4.2
18							..	3.2	3.6	4.0	4.0	4.2
19							..	3.2	3.7	4.0	4.3	4.4
20							2.5	3.2	3.7	4.0	4.3	4.3
21							..	3.1	3.7	4.0	4.2	4.2
22							..	3.1	3.8	3.9	4.2	..
23							..	3.2	3.8	4.2	4.3	4.4
24				2.4			2.5	3.2	3.9	4.0	4.4	4.4
25							..	..	3.8	4.2	4.6	6.6
26							..	3.2	3.9	4.0	4.3	4.2
27		3.0					..	3.3	3.8	4.0	4.3	5.2
28		2.4					..	3.2	3.8	4.1	4.4	4.6
29							..	3.3	3.7	4.0	4.3	4.4
30							..	3.3	4.0	4.2	4.5	4.6
Mean	..	..	..	..	..	..	2.5	3.2	3.8	4.1	4.3	4.5
Median	..	..	..	..	..	..	2.5	3.2	3.8	4.0	4.3	4.4
Count	1	2	..	2	..	..	12	26	27	29	29	27

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fbEs

Unit : Mc.

Month : November 1958

TABLE 49—Contd.

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
..	4'3	3'9	3'4	3'0								1
4'6	4'3	4'0	3'7	2'9				2'7			C	2
..	4'3	4'0	3'5	2'8						2'6		3
4'3	4'0	3'8	3'4	2'8				2'2				4
C	C	C	..	2'9								5
4'3	4'2	3'8	3'5	2'8								6
4'5	4'1	3'9	3'3	2'8								7
C	C	C	3'5	2'9	C							8
4'3	4'2	3'8	3'4	2'7								9
..	4'2	4'0	3'5	2'8								10
4'4	4'3	3'7	3'4	2'7					2'0			11
4'2	4'0	3'7	3'3	2'9					2'3			12
4'2	4'4	3'8	3'4	2'6								13
4'2	4'0	3'6	..	2'8								14
4'2	..	3'6	3'2	2'8								15
4'2	4'0	3'8	3'4	2'8					2'6			16
4'2	4'0	3'8	3'4	2'8							1'8	17
4'2	4'0	3'8	3'3	3'0							2'5	18
4'4	4'0	3'8	3'4	2'7								19
4'3	4'0	3'7	3'3	..						2'0		20
4'3	4'0	3'8	3'4	2'8								21
4'2	4'0	3'8	3'4	2'8								22
4'3	4'0	3'8	3'4	..								23
4'4	4'2	4'0	3'5	..								24
..	4'2	3'8	3'6	2'8								25
4'4	4'2	3'8	3'4	..								26
4'4	4'0	3'9	3'6	..								27
4'4	..	3'8	3'5	2'8	2'4							28
4'3	4'3	4'0	3'6	2'8						3'2		29
4'6	4'3	3'9	3'7	3'0								30
4'3	4'1	3'8	3'4	2'8	..	..	..	..	..	..	..	Mean
4'3	4'2	3'8	3'4	2'8	..	..	..	..	..	..	..	Median
24	26	28	28	25	1	..	..	2	3	3	2	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : f min.

Unit : Mc.

Month : November 1958

TABLE 50

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	1.9	1.6	1.6	1.5	1.5	1.7	2.4	2.2	4.0	3.2	C	3.2
2	G	C	1.8	1.7	1.9	1.9	2.2	2.4	4.1	3.2	3.3	3.6
3	1.7	1.5	1.7	1.5	1.6	1.6	2.3	2.5	2.6	3.6	3.4	3.3
4	2.0	1.6	1.7	1.9	2.2	2.3	2.2	2.1	2.4	2.6	2.7	3.0
5	1.5	1.6	1.5	1.4	1.4	1.4	2.2	1.9	2.4	3.0	3.0	3.1
6	1.8	1.7	1.7	1.9	1.7	1.8	2.1	2.0	2.2	2.7	3.0	2.9
7	2.0	1.7	1.7	1.7	1.8	1.8	2.1	1.9	2.5	3.3	3.0	3.1
8	1.7	1.5	1.6	1.4	1.4	1.4	2.2	1.9	2.3	2.6	C	C
9	2.2	2.0	1.5	1.6	1.6	1.6	2.1	2.2	2.3	2.7	3.0	2.9
10	1.8	2.1	1.6	1.8	1.9	1.6	2.1	2.2	2.7	3.0	3.0	3.1
11	2.0	2.1	1.5	1.7	1.4	1.8	2.2	2.2	2.8	3.1	2.7	2.9
12	1.6	1.6	1.4	1.5	1.6	1.7	2.2	2.3	2.5	3.0	3.0	3.1
13	1.6	1.6	1.4	1.4	1.6	1.5	1.9	1.9	2.3	2.6	2.7	3.0
14	1.8	1.5	1.7	1.6	1.5	1.5	2.3	2.0	2.4	2.7	3.0	3.0
15	1.6	1.7	1.8	1.7	1.8	1.7	1.7	1.8	2.2	2.6	2.7	3.0
16	1.4	1.5	1.4	1.5	1.7	1.8	2.2	2.1	2.2	2.8	3.0	3.0
17	2.4	1.8	1.7	1.6	1.7	1.6	2.0	1.7	2.2	2.6	2.8	3.0
18	1.6	1.7	1.8	1.7	1.6	1.5	2.1	1.7	2.3	2.8	2.8	3.0
19	1.7	1.9	1.7	1.6	1.9	1.8	2.0	1.8	2.2	2.6	2.8	2.9
20	1.7	1.8	1.7	1.6	1.6	1.6	1.7	1.8	2.4	2.8	3.0	3.0
21	1.7	2.0	2.4	2.3	2.0	1.7	2.1	2.1	2.4	2.6	3.0	3.0
22	1.7	1.7	1.5	1.5	1.6	1.7	2.2	1.9	2.2	2.6	2.8	3.0
23	2.1	2.1	2.0	1.9	1.8	1.7	2.1	2.0	2.3	2.7	2.7	3.0
24	1.7	1.4	1.5	1.7	1.9	1.8	2.0	2.0	2.5	3.0	3.2	3.2
25	2.2	1.7	1.8	1.5	1.4	1.6	1.6	1.7	2.4	2.8	2.8	2.8
26	1.9	1.4	1.4	1.5	1.6	1.8	2.0	2.2	2.8	2.8	3.0	3.2
27	2.2	1.7	2.0	1.7	1.6	1.5	2.0	1.9	2.4	2.6	3.0	3.0
28	1.8	1.3	2.2	1.6	1.6	1.6	2.0	2.0	2.6	3.0	4.6	3.2
29	2.2	2.2	2.0	1.6	1.6	1.6	2.3	2.2	2.4	2.8	2.8	3.0
30	1.9	2.0	2.0	1.7	1.6	1.7	2.0	2.4	2.8	3.2	3.3	3.2
Mean	1.8	1.8	1.7	1.6	1.7	1.7	2.1	2.0	2.5	2.8	3.0	3.0
Median	1.8	1.7	1.7	1.6	1.6	1.6	2.1	2.0	2.4	2.8	3.0	3.0
Count	29	29	30	30	30	30	30	30	30	30	28	29

Sweep: 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : f min.

TABLE 50

Latitude : 10°2' N

Unit : Mc.

Ionospheric Data

Longitude : 77°5' E

Month : November 1958

75°0' E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
3.4	3.4	2.9	2.4	2.8	2.6	1.4	1.9	1.6	1.7	1.6	2.1	1
3.4	3.2	3.1	3.0	2.6	2.4	1.5	1.7	1.9	1.8	2.1	1.8	2
3.2	3.4	3.9	2.7	2.4	2.0	1.3	1.7	1.8	2.0	1.9	2.0	3
3.2	3.0	2.7	2.4	2.2	2.4	1.3	1.2	1.6	1.6	1.7	1.5	4
3.3	C	C	2.5	2.6	2.4	1.4	1.7	2.0	1.9	2.1	2.2	5
3.2	3.1	2.6	2.4	2.5	2.5	1.5	1.7	1.8	1.8	1.7	1.6	6
3.2	3.0	2.8	2.4	2.2	2.3	1.4	1.7	1.7	1.8	1.8	1.6	7
C	C	C	2.8	2.4	C	C	1.4	1.9	2.0	2.3	2.3	8
3.2	3.0	2.7	2.6	2.4	2.4	2.0	1.8	1.9	2.0	2.2	2.0	9
3.2	3.1	3.1	2.5	2.6	2.4	1.5	2.3	2.4	2.2	2.1	2.4	10
3.1	2.9	2.7	2.4	2.2	2.3	1.5	1.8	1.8	1.6	2.1	2.1	11
3.0	3.0	2.8	2.3	2.5	2.4	2.2	1.5	1.7	2.1	2.1	1.9	12
3.2	2.7	2.5	2.2	1.9	2.3	1.5	1.7	1.9	2.0	1.8	2.0	13
C	C	2.7	2.4	2.2	1.9	1.4	2.0	1.9	1.8	1.6	1.5	14
3.0	3.0	2.6	2.4	2.2	2.2	1.5	2.0	1.9	1.9	2.0	2.0	15
3.2	3.0	2.6	2.3	2.1	2.4	1.6	2.0	2.0	1.6	2.4	2.4	16
3.0	3.0	2.8	2.4	2.3	2.1	1.6	1.6	1.8	2.0	1.8	1.2	17
3.0	3.0	2.6	2.2	2.2	2.0	1.6	1.6	1.8	1.8	2.4	1.6	18
2.8	2.8	2.6	2.4	2.2	2.3	1.5	1.9	2.0	2.0	2.0	2.0	19
2.9	3.0	2.7	2.3	2.1	2.3	1.4	1.9	2.0	1.8	2.0	1.9	20
3.0	3.0	2.8	2.4	2.5	2.4	1.7	1.9	1.9	1.7	1.9	1.7	21
3.0	3.0	2.6	2.3	2.3	2.0	1.8	2.0	1.9	2.0	2.0	2.2	22
3.0	3.2	2.7	2.5	2.5	2.4	1.4	1.7	1.9	1.9	1.6	1.8	23
3.2	3.2	2.8	2.6	2.6	2.4	1.5	2.1	2.0	1.8	2.0	2.3	24
3.1	3.0	3.0	2.6	2.6	2.4	1.6	1.8	2.0	1.8	2.2	2.0	25
3.2	3.4	3.0	3.0	3.0	2.5	1.4	2.2	2.4	2.0	2.0	2.4	26
4.2	3.0	3.0	2.6	2.8	2.6	1.8	1.7	2.0	2.0	1.9	2.0	27
3.4	3.0	3.0	2.6	2.4	2.2	1.8	2.5	2.2	2.0	2.0	1.7	28
3.2	3.0	2.9	3.0	2.4	2.6	1.4	1.7	1.6	1.7	1.8	1.3	29
3.3	3.6	3.0	2.7	2.6	2.6	1.5	1.8	2.0	1.9	2.0	1.8	30
3.2	3.1	2.8	2.5	2.4	2.3	1.6	1.8	1.9	1.9	2.0	1.9	Mean
3.2	3.0	2.8	2.4	2.4	2.4	1.5	1.8	1.9	1.9	2.0	2.0	Median
28	27	28	30	30	29	29	30	30	30	30	30	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic: f min.

TABLE 50—Contd.

Latitude: 10° 2' N

Unit: Mc.

Ionospheric Data

Longitude: 77° 5' E

Month: November 1958

75° 0' E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	1.9	1.4	1.5	1.5	1.6	1.8	2.1	2.5	3.2	3.0	3.4	3.0
2	C	1.8	1.8	1.9	2.1	1.9	2.3	2.6	4.0	3.1	3.3	3.4
3	1.5	1.6	1.4	1.7	1.5	1.9	2.3	2.4	2.8	3.4	3.4	3.2
4	1.9	2.2	1.7	2.1	2.2	1.8	2.6	2.3	2.6	2.6	3.0	3.2
5	1.5	1.7	1.7	1.5	1.4	1.7	2.0	2.4	C	2.9	3.2	3.4
6	1.7	1.6	1.8	1.9	1.7	1.8	2.0	2.0	2.4	3.0	3.1	3.0
7	1.9	1.8	1.9	1.7	1.7	1.7	1.8	2.1	3.5	3.0	3.2	3.1
8	1.6	1.8	1.5	1.5	1.3	1.6	1.9	2.2	2.6	2.7	C	C
9	1.9	1.8	1.6	1.6	1.7	2.0	2.0	2.3	2.5	2.8	3.0	3.0
10	1.8	1.9	1.8	1.9	1.9	2.0	1.9	2.6	2.8	3.0	3.1	3.1
11	1.6	1.7	2.2	1.8	1.6	2.1	1.6	2.6	3.0	2.6	3.0	3.0
12	1.7	1.4	1.4	1.8	1.8	2.0	2.2	2.3	2.9	3.0	3.0	3.2
13	1.7	1.8	1.6	1.4	1.7	1.7	1.8	2.2	2.4	2.6	2.8	3.1
14	2.1	1.5	1.6	1.5	1.7	1.7	1.9	2.2	2.6	2.8	3.2	C
15	1.2	1.8	2.0	1.9	1.5	1.5	1.5	2.2	2.6	2.6	2.8	3.0
16	1.4	1.5	1.4	1.5	1.7	1.8	1.8	2.2	C	2.8	3.0	3.0
17	2.2	1.8	1.8	1.8	1.7	1.5	1.8	1.9	2.4	2.8	2.8	3.2
18	1.7	1.5	1.9	1.8	1.6	1.5	1.9	2.1	2.4	2.8	3.0	3.0
19	1.8	2.1	1.7	2.1	1.9	2.0	1.7	2.2	2.5	2.7	2.7	2.8
20	1.7	1.7	1.7	1.6	1.6	1.6	1.7	2.2	2.5	2.6	3.0	3.0
21	2.2	1.9	2.3	1.8	2.0	1.8	1.9	2.1	2.6	2.7	3.0	3.2
22	1.6	1.5	1.6	1.6	1.6	1.6	1.8	2.1	2.5	2.8	3.2	3.0
23	1.8	2.0	1.8	1.7	1.7	1.7	1.8	2.1	2.5	2.8	3.0	3.0
24	1.7	1.5	1.6	1.7	2.0	1.7	1.9	2.2	3.2	2.9	3.3	3.3
25	1.9	1.9	1.6	1.4	1.6	1.7	1.8	2.2	2.6	3.2	2.8	3.0
26	1.8	1.5	1.3	1.7	1.6	1.7	2.1	2.3	2.8	2.8	3.0	3.3
27	1.8	1.7	2.4	1.7	1.6	1.6	1.8	2.3	2.4	2.7	3.2	3.5
28	1.7	1.6	1.8	1.6	1.9	1.7	2.6	2.3	2.8	3.0	3.6	3.0
29	1.7	2.2	1.6	1.6	1.4	1.6	1.9	2.4	2.7	2.7	3.0	3.1
30	2.0	2.0	1.8	1.6	1.6	1.5	2.1	2.6	2.9	3.2	3.6	3.2
Mean	1.8	1.7	1.7	1.7	1.7	1.7	2.0	2.3	2.7	2.8	3.1	3.1
Median	1.7	1.8	1.7	1.7	1.7	1.7	1.9	2.2	2.6	2.8	3.0	3.1
Count	29	30	30	30	30	30	30	30	28	30	29	28

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : f min.

Unit : Mc.

Month : November 1958

TABLE 50—Contd.

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.7	3.0	2.7	2.7	2.4	1.8	1.5	1.7	1.7	1.9	2.2	C	1
3.4	3.1	3.2	2.8	2.5	1.9	1.6	1.6	1.8	1.8	1.8	1.5	2
4.8	3.2	3.0	2.6	2.3	1.9	1.3	1.6	1.7	1.8	1.4	1.8	3
3.0	3.0	2.7	2.5	2.2	1.7	1.3	1.3	1.1	2.2	1.9	1.6	4
C	C	C	4.1	2.4	1.8	1.3	1.7	1.8	1.8	1.7	2.4	5
2.9	2.9	2.5	2.5	2.6	2.1	1.6	1.7	1.7	1.6	1.6	2.2	6
3.0	3.0	2.6	2.3	2.2	1.8	1.2	1.8	1.9	2.4	1.5	1.9	7
C	C	C	2.6	2.8	C	1.6	1.9	1.9	2.0	2.2	2.4	8
2.9	2.8	2.6	2.5	2.6	1.8	1.6	1.8	1.9	2.1	2.3	2.3	9
3.2	3.0	2.8	2.5	2.5	1.7	1.6	2.0	2.3	2.2	2.1	2.1	10
3.0	2.8	2.5	2.3	2.2	1.8	1.3	2.0	1.8	1.6	2.4	1.7	11
3.0	3.0	2.5	2.6	2.3	1.8	1.6	1.8	1.9	1.9	2.2	1.7	12
2.8	2.4	2.3	2.2	2.2	1.9	1.4	2.0	1.9	1.9	1.7	1.7	13
3.0	2.8	2.6	2.4	2.2	1.8	1.5	2.0	1.8	1.8	1.8	1.5	14
3.0	2.7	2.5	2.4	2.2	1.8	1.8	1.9	2.0	1.6	1.6	1.8	15
3.1	2.8	2.6	2.4	2.2	1.7	1.6	1.7	2.0	2.2	2.4	2.4	16
3.2	3.0	2.6	2.4	2.2	1.8	1.8	1.8	2.0	1.9	1.8	1.4	17
3.0	2.6	2.3	2.4	2.0	1.9	1.3	2.0	1.8	1.7	2.1	2.0	18
2.8	2.6	2.6	2.4	2.2	1.7	1.6	2.0	2.0	1.6	2.0	2.2	19
3.2	2.7	2.5	2.3	2.2	1.7	1.4	2.0	1.8	1.9	1.8	1.7	20
3.2	2.8	2.6	2.6	2.2	2.0	1.4	2.0	1.9	2.0	1.7	1.6	21
3.0	2.6	2.4	2.3	2.1	1.6	1.5	2.0	1.9	1.9	2.4	2.1	22
3.0	3.0	2.7	2.6	2.4	1.8	1.7	1.6	1.7	1.8	1.9	1.6	23
3.2	3.0	3.4	2.6	2.2	1.8	1.6	1.8	1.7	1.9	1.6	2.2	24
4.4	3.1	2.8	2.6	2.6	1.8	1.8	1.5	2.2	2.0	2.2	1.8	25
3.0	3.0	3.0	2.8	3.0	2.0	2.0	2.1	2.0	1.8	2.2	1.8	26
3.2	2.8	3.0	2.8	3.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	27
3.2	5.0	2.8	2.8	2.3	2.2	2.0	2.2	2.2	1.8	2.0	2.3	28
3.1	3.0	2.8	2.6	2.3	1.7	1.4	1.4	1.6	1.7	1.5	1.7	29
3.4	3.0	2.8	2.8	2.4	1.9	1.5	1.9	1.9	1.8	1.4	1.7	30
3.2	2.9	2.7	2.6	2.4	1.8	1.6	1.8	1.9	1.9	1.9	1.9	Mean
3.0	3.0	2.6	2.6	2.3	1.8	1.6	1.8	1.9	1.9	1.9	1.8	Median
28	28	28	30	30	29	30	30	30	30	30	29	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic: f^oF_2

TABLE 51

Latitude: $10^{\circ}2' N$

Unit: Km

Ionospheric Data

Longitude: $77^{\circ}5' E$

Month: November 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	C	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
Mean							
Median							
Count							

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F₂

Unit : Km

Month : November 1958

TABLE 51
Ionospheric Data
75.0° E Mean Time

Latitude : 10° 2' N.

Longitude : 77° 5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L L L L	L L L C	L L L C	L L L L	L L L L								1
L L C L	L L C L	L L C L	L L L L	L L L L								2
L L C L	L L C L	L L C L	L L L L	L L L L								3
L L L L	L L L L	L L L L	L L L L	L L L L								4
L L L L	L L L L	L L L L	L L L L	L L L L								5
L L L L	L L L L	L L L L	L L L L	L L L L								6
L L L L	L L L L	L L L L	L L L L	L L L L								7
L L L L	L L L L	L L L L	L L L L	L L L L								8
L L L L	L L L L	L L L L	L L L L	L L L L								9
L L L L	L L L L	L L L L	L L L L	L L L L								10
L L L L	L L L L	L L L L	L L L L	L L L L								11
L L L L	L L L L	L L L L	L L L L	L L L L								12
L L L L	L L L L	L L L L	L L L L	L L L L								13
L L L L	L L L L	L L L L	L L L L	L L L L								14
L L L L	L L L L	L L L L	L L L L	L L L L								15
L L L L	L L L L	L L L L	L L L L	L L L L								16
L L L L	L L L L	L L L L	L L L L	L L L L								17
L L L L	L L L L	L L L L	L L L L	L L L L								18
L L L L	L L L L	L L L L	L L L L	L L L L								19
L L L L	L L L L	L L L L	L L L L	L L L L								20
L L L L	L L L L	L L L L	L L L L	L L L L								21
L L L L	L L L L	L L L L	L L L L	L L L L								22
L L L L	L L L L	L L L L	L L L L	L L L L								23
L L L L	L L L L	L L L L	L L L L	L L L L								24
L L L L	L L L L	L L L L	L L L L	L L L L								25
L L L L	L L L L	L L L L	L L L L	L L L L								26
L L L L	L L L L	L L L L	L L L L	L L L L								27
L L L L	L L L L	L L L L	L L L L	L L L L								28
L L L L	L L L L	L L L L	L L L L	L L L L								29
L L L L	L L L L	L L L L	L L L L	L L L L								30
..	..	..	..	..								Mean
..	..	..	..	..								Median
..	..	..	..	..								Count

Sweep in Mc. to 25 Mc. in 29 seconds.

Characteristic : h'F₂

TABLE 51—Contd.

Latitude : 10° 2' N

Unit : Km

Ionospheric Data

Longitude : 77° 5' E

Month : November 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							..	L	L	L	L	L
2							L	L	L	L	L	L
3							L	L	L	L	L	L
4							L	L	L	L	L	L
5							L	L	C	L	L	L
6							L	L	L	L	L	L
7							..	L	L	L	L	L
8							..	L	L	L	L	L
9							..	L	L	L	L	L
10							L	L	L	L	L	L
11							L	L	L	L	L	L
12							L	L	L	L	L	L
13							..	L	L	L	L	L
14							..	L	L	L	L	L
15							..	L	L	L	L	L
16							..	L	C	L	L	L
17							..	L	L	L	L	L
18							..	L	L	L	L	L
19							L	L	L	L	L	L
20							L	L	L	L	L	L
21							..	L	L	L	L	L
22							L	L	L	L	L	L
23							..	L	L	L	L	L
24							..	L	L	L	L	L
25							..	L	L	L	L	L
26							..	L	L	L	L	L
27							..	L	L	L	L	L
28							..	L	L	L	L	L
29							..	L	L	L	L	L
30							..	L	L	L	L	L
Mean
Median
Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F₂

TABLE 51—Contd.

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : November 1958

75.0° E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L L L L C	L L L L C	L L L L C	L L L L L	.. .. .. .. ..								1
L L C L L	L L C L L	L L C L L	L L L L L	L L L L L								2
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								3
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								4
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								5
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								6
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								7
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								8
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								9
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								10
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								11
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								12
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								13
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								14
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								15
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								16
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								17
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								18
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								19
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								20
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								21
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								22
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								23
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								24
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								25
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								26
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								27
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								28
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								29
L L L L L	L L L L L	L L L L L	L L L L L	L L L L L								30
..	..	..	..	..	..	..	..	..	..	..	..	Mean
..	..	..	..	..	..	..	..	..	..	..	..	Median
..	..	..	..	..	..	..	..	..	..	..	..	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : Fh'F

TABLE 32

Latitude : 10° 2' N

Unit : Km

Ionospheric Data

Longitude : 77° 5' E

Month : November 1958

75.0° E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	270	235	225	U240F	U220F	225	270	245	230	225	C	220
2	C	C	U230F	240	240	U230F	265	245	235	225	220	220
3	275	270	265	255	240	235	270	245	235	225	225	220
4	250	240	245	245	230	235	270	245	235	230	215	215
5	235	230	225	225	225	220	270	245	235	225	220	215
6	240	240F	225F	220	220	220	270	245	225	220	210	215
7	260	240	230	235	230	225	280	230H	230	230	225	220
8	240	240	230	225	225	235	285	250	240	230	C	C
9	260	240	235	225	220	225	275	250	240	230	220	225
10	270	230	220	220	230	225	280	250	240	225	220H	220
11	250	260	255	260	260	225	285	250	230	225	220	230
12	240	235	230	225	220	220	280	255	230	240	220H	210H
13	245	240	220	240	240	220	260	240	220	220	220	220
14	305	240	220	220	220	215	275	240	240	220	215	220
15	260	240	230	210	220	230	270	240	220	220	220	215
16	260	240	220	220	215	230	260	240	230	220	220	220
17	240	220	210	220	220	240	280	250	230	220	210	210
18	260	260	220	220	220	220	260	240	230	220	215	205
19	255	U265A	245	280	U300F	280	280	250	240	230	220	220
20	290	250	235	225	230	225	275	245	230	225	220	215
21	235	240	230	230	240	220	270	250	230	225	220	215
22	245	230	220	215	225	260	280	245	235	225	225	220
23	U280F	245	225	225	240	240	275	250	235	225	220	220
24	270	280H	255	270	245	230	290	250	240	230	225	220
25	265	235	240	255	235	235	270	240	235	220	215	2240A
26	260	270	280	270	270	225	290	255	240	225	220	220
27	300	280	280	240	220	215	290	255	240	230	220	220
28	350	300	280	250	235	220	260	250	240	230	230	220
29	280	265	240	250	235	220	285	240	240	230	225	220
30	280	270	250	230	220	220	290	255	240	230	225	220
Mean	265	230	235	235	235	230	275	245	235	225	220	220
Median	260	240	230	230	230	225	275	245	235	225	220	220
Count	29	29	30	30	30	30	30	30	30	30	28	28

Sweep : Mc. 10-15 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km

Month : November 1958

TABLE 52

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
220	220	210	220	250	280	375	U420F	U440F	U410F	U330F	U280F	1
225	220	210	230	250	275	375	420	390	320	260	255	2
215	225	230	240	255	285	355	U435F	U320F	300	270	260	3
210	220	220	235	255	275	365	430	U400F	330	280	250	4
220	C	C	225	245	280	385	U470F	U380F	U340F	U275F	U320F	5
210	210	220H	205H	245	280	390	U460F	F	U440F	U260F	U300F	6
215	220	210	225	250	280	385	U440F	420	450	300	260	7
C	C	C	235	250	C	C	320	U480F	U380F	385	310	8
215	215	220	230	250	280	375	475	U485F	U440F	U380F	350	9
220	220	225	225	255	290	400	F	F	F	280	260	10
225	220	225	235	260H	280	390	480	380	320	280	250	11
220	220	220	235	250	280	370	430	400F	340	295	265	12
220	220	220	230	240	270	360	450F	U480F	U440F	380F	340F	13
C	C	220	220	240	280	380	U460F	U400F	U370F	340	280	14
215	210	220	220	240	280	380	U405F	U440F	U360F	U320F	320F	15
220	210	220	225	240	270	365	U400F	U420F	U400F	300	260	16
210	205	210	220	250	280	360	F	F	U400F	340	270	17
205	210	220	220	240	280	360	460F	U440F	U440F	U380F	U300F	18
220	220	220	230	250	280	380	U460F	385	F	U295F	370	19
205H	210	215	220H	250	275	365	F	F	U460F	U400F	320	20
205H	205H	220	220	245	280	390	F	350F	400	U300F	265	21
215	210H	220H	225	240	280	395	U570F	475	390	U400F	330	22
210	215	220	225	250	280	360	380	400	F	U390F	310	23
220	220	220	230	250	280	390	480	380	305	265	280	24
220	225	225	230	255	280	350	420	U400F	420	F	280	25
220	220	220	230	250	275	360	400	440	440	410	340	26
220H	220	225	240	260	280	360	420	U470F	U440F	U400F	340	27
220	220	225	240	260	300	365	400	370	340	320	310	28
220	225	220	235	260	260	360	390	U390F	U380F	360	330	29
220	225	230	230	250	280	370	U470F	430F	420F	F	U360F	30
215	215	220	230	250	280	375	445	U415	U390	330	300	Mean
220	220	220	230	250	280	370	440	U400	U400	325	300	Median
28	27	28	30	30	29	29	26	26	27	28	30	Count

Sweep : Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F

TABLE 52—Contd.

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : November 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	240	220	225	U220F	225	240	255	240	225	215	220	220
2	C	240	235	240F	240	235	255	240	230	220	220	225
3	270	260	260	250	230	250	250	240	235	225	230	210H
4	240	250	245	230	235	250	250	235	230	220	215	215
5	230	225	225	225	220	235	250	235	C	220	220	215
6	240	225	220	220	220	255	255	235	220H	205H	220	215
7	245	240	240	235	230	250	250	240	235	230	220	215
8	240	240	230	220	230	260	260	240	230	220	C	C
9	230	240	225	220	220	255	260	240	235	220	215	220
10	240	220	220	230	230	260	260	240	240	220H	215H	220
11	245	245	260	265	240	240	260	240	230	230	225	230
12	240	230	225	225	225	240	260	240	235H	230	205H	220H
13	240	230	230	240	240	240	250	240	220	220	220	220
14	270	220	220	220	220	240	250	240	230	220	220	C
15	260	240	220	200	230	240	255	230	220	220	220	215
16	240	220	220	220	220	235	250	235	C	200H	220	220
17	230	220	220	220	220	260	260	240	225	220	210	205
18	260	245	230	220	220	240	250	235	225	220	200	210
19	255	245	260	300	300	275	260	245	230	225	215	220
20	250	240	235	225	220	240	260	240	225	220	220	210
21	240	230	230	230	235F	245	260	240	230	225	215	215
22	245	225	215	220	235	260	250	240	230	225	220	215
23	260	235	225	220	235	245	260	240	235	225	220	210
24	265H	260H	260	F	240	240	260	240	235	230	225	220
25	250	235	240	245	230	235	260	240	230	220	225	A
26	270	275	280	265	230	240	265	250	235	220	220	215
27	300	300	265	220	220	240	265	245	240	220	220	240
28	320	290	260	240	230	230	270	240	235	220	220	220
29	270	260	240	240	220	235	265	240	235	230	220	215
30	270	260	240	230	220	240	270	250	240	230	220	220
Mean	255	240	235	230	230	245	260	240	230	220	220	220
Median	250	240	230	225	230	240	260	240	230	220	220	215
Count	29	30	30	29	30	30	30	30	28	30	29	27

Sweep 1 Mc. to 25 Mc. in 27 s conds.

Characteristic : h'F

TABLE 52—Contd.

Latitude : 10.2° N

Unit : Km

Ionospheric Data

Longitude : 77.5° E

Month : November 1958

75°0' E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
220	220	220	240	265	310	410	U420F	U420F	U400F	U295F	C	1
225	220	225	245	255	315	420	400F	U375F	280	250	270	2
235	225	230	245	265	315	U425F	U360F	U325F	280	265	245	3
215	215	225	240	265	305	415	420F	360	305	265	235	4
C	C	C	245	260	310	U430F	U480F	U305F	U345F	245	U250F	5
210H	200H	210H	240	260	310	465F	U500F	U530F	U360F	U280F	320	6
215	220	220	230	265	320	420	U440F	U415F	360	270	255	7
C	C	C	240	265	C	445	F	U440F	U400F	U375F	275	8
215	220	220	240	260	310	440	U500F	500F	U410F	U340F	290	9
220	220	220	245	260	310	U460F	F	F	F	260	255	10
230	220	230	240H	270	320	460	U440F	355	305	265	240	11
220	210H	230	245	260	300	400	440	380F	305	290	260	12
220	220	220	240	260	300	425	U460F	U475F	420F	360F	325F	13
200H	210H	220	240	260	305	440	U460F	U400F	U340F	320	300	14
210	220	220	220	250	305	U420F	U400F	U420F	U340F	U320F	295	15
220	220	220	240	255	300	405	U420F	U400F	320	280	240	16
210	210	220	240	260	310	400	F	U400F	U400F	280	260	17
210	215	220	240	260	300	425	U460F	U440F	U380F	U340F	270	18
220	215	220	235	260	305	F	U420F	F	F	330	U345F	19
200H	210H	210H	235	260	300	F	F	F	U400F	390	265	20
200H	210H	220	235	260	310	465	F	U325F	U325F	310	250	21
215	210	220	235	265	315	490	500	460	360	390	U270F	22
210	220	220	240	265	305	380	390	440F	370F	360	280	23
220	220	230	240	265	320	460	FH	340	280	270	270	24
220	220	220	225	260	310	390	440F	400	430	320F	260	25
220	220	235	240	260	300	400	400	460	410	400	300	26
220	220	230	240	260	310	390	480F	440F	U480F	U370F	360	27
220	B	240	240	270	310	400	390	350	340	320	300	28
220	230	230	250	265	305	380	390	U390F	360	360	290	29
220	220	230	240	260	305	420	500F	510F	F	420F	380	30
215	215	225	240	260	310	425	U440	U410	360	320	280	Mean
220	220	220	240	260	310	420	U430	U400	360	320	270	Median
28	27	28	30	30	29	28	24	27	27	30	29	Count

Sw ep 1 Mo. to 2 c. in 27 seconds.

Characteristic : h'E
Unit : Knt
Month : November 1958

TABLE 53
Ionospheric Data
75°0' E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								115	B	A	C	A
2								120	B	A	C	A
3								120	115	A	115	110
4								110	105	A	A	A
5								115	A	110	A	A
6								105	105	A	A	A
7								110	A	B	A	A
8								115	105	A	C	A
9								115	A	A	A	A
10								115	A	A	A	A
11								A	120	A	A	A
12								115	110	A	A	A
13								110	A	A	A	A
14								110	A	A	A	A
15								A	A	A	A	A
16								110	A	A	A	A
17								A	A	A	A	A
18								105	A	A	A	A
19								105	A	A	A	A
20								110	105	A	A	A
21								110	A	A	A	A
22								110	105	105	105	110
23								110	A	A	A	A
24								110	A	A	A	A
25								110	110	110	A	A
26								120	120	110	110	110
27								115	110	A	115	A
28								110	120	110	B	110
29								120	120	115	110	A
30								120	120	115	A	110
Mean								110	110	110	110	110
Median								110	110	110	110	110
Count								27	14	7	5	5

Swampy Mc. to 23 Mo. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : November 1958

TABLE 53

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A								1
A	A	A	A	A								2
A	A	B	A	A								3
A	110	A	A	A								4
110	C	C	A	120								5
A	A	A	A	115								6
A	A	A	A	115								7
C	C	C	A	A	C							8
A	A	A	A	A	A							9
A	110	110	110	A								10
A	A	A	A	A								11
A	A	A	A	A								12
C	C	105	105	110	A							13
A	A	105	105	115								14
A	A	A	A	A								15
A	A	A	A	110	140							16
A	A	A	A	A	120							17
A	A	A	105	115	130							18
A	A	A	A	110								19
A	A	A	A	120	F							20
A	110	A	A	A								21
110	105	A	A	A								22
A	A	A	A	A								23
A	110	110	110	A								24
110	A	A	115	A								25
B	110	A	A	A								26
A	110	A	110	A								27
A	110	110	110	115								28
115	115	115	110	115								29
												30
110	110	110	110	115	..	..	..	..	..	..	..	Mean
110	110	110	110	115	..	..	..	..	..	..	..	Median
5	9	6	9	11	3	..	..	..	..	..	..	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'E

TABLE 53—Contd.

Latitude : 10° 2' N

Unit : Km

Ionospheric Data

Longitude : 77° 5' E

Month : November 1958

75° 0' E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							120	A	A	A	A	A
2							130	115	B	A	A	A
3							120	110	110	115	A	A
4							..	105	110	A	A	A
5							120	A	C	A	A	A
6							120	105	105	A	A	A
7							115	A	B	A	A	A
8							120	110	105	A	C	C
9							120	110	A	A	A	A
10							120	115	A	A	A	A
11							A	125	120	A	A	A
12							120	115	110	A	A	A
13							120	A	A	A	A	A
14							120	105	A	A	A	C
15							110	A	A	A	A	A
16							120	110	C	A	A	110
17							110	A	A	A	A	A
18							120	A	A	A	A	A
19							115	A	A	A	A	A
20							115	105	105	A	A	A
21							120	A	A	A	A	A
22							115	110	105	105	115	110
23							115	105	A	A	A	A
24							115	105	A	A	A	A
25							120	115	110	115	A	A
26							120	115	115	110	110	110
27							120	110	110	A	110	A
28							..	110	120	110	120	110
29							120	120	110	110	115	110
30							125	120	120	110	A	110
Mean	120	110	110	110	115	110
Median	120	110	110	110	115	110
Count	27	21	14	7	5	6

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km

Month : November 1958

TABLE 53—Contd.

Ionospheric Data

75°0' E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
B	A	A	A	A								1
A	A	A	115	A								2
B	A	A	A	A								3
105	A	A	A	A								4
C	C	C	B	125								5
A	A	A	A	..								6
A	A	A	110	A								7
C	C	C	A	A								8
A	A	A	A	A								9
105	115	110	110	A								10
A	A	A	A	A								11
A	A	A	A	A								12
A	A	A	A	A								13
A	110	105	110	120								14
A	105	105	115	1120F								15
A	A	A	A	120								16
A	A	A	110	110								17
A	A	A	A	A								18
A	A	A	115	115								19
A	A	A	A	115								20
A	A	A	A	120								21
110	A	A	A	A								22
105	A	A	110	125								23
A	A	B	A	120								24
B	110	110	110	A								25
110	110	115	120	..								26
110	110	A	A	..								27
110	B	110	110	120								28
A	A	115	115	120								29
115	110	110	A	115								30
110	110	110	110	120	..	..	..	..	..	..	..	Mean
110	110	110	110	120	..	..	..	..	..	..	..	Median
8	7	8	12	13	..	..	..	..	..	..	..	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : November 1958

TABLE 54
Ionospheric Data
75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	C	C						100	100	100	C	100
2								G	100	100	100	100
3								G	100	100	G	100
4								100	100	100	100	100
5								100	100	100	100	100
6								105	100	100	100	100
7								100	100	100	100	100
8								100	100	100	C	C
9								100	100	100	100	100
10								100	100	100	100	100
11					100			100	G	100	100	100
12								100	100	100	100	100
13								100	100	100	100	100
14								100	100	100	100	100
15	100	100						100	100	100	100	100
16								G	100	100	100	100
17								100	100	100	100	100
18								105	100	100	100	100
19	120	100						100	100	100	100	100
20								100	100	100	100	100
21								100	100	100	100	100
22								G	100	100	100	100
23								100	100	100	100	100
24				100				100	100	100	100	100
25							160	G	100	100	100	100
26								100	100	100	100	100
27		115	110					100	100	100	100	100
28		110						100	100	100	G	100
29								G	100	100	100	100
30		100						G	100	100	100	100
Mean	..	105	..	..	..	..	..	100	100	100	100	100
Median	..	100	..	..	..	..	..	100	100	100	100	100
Count	2	5	1	1	1	..	1	23	29	30	26	29

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km.

Month : November 1958

TABLE 54
Ionospheric Data
75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100								1
100	100	100	100	100								2
100	100	100	100	100	110			135			100	3
100	100	100	100	100					120			4
100	C	C	100	100								5
100	100	100	100	100								6
100	100	100	100	100								7
C	C	C	100	100	C	C			120			8
100	100	100	100	100	100							9
100	G	100	100	100								10
100	100	100	100	100								11
100	100	100	100	100								12
100	100	100	100	100						115		13
C	G	100	100	G	120							14
100	100	G	100	100								15
100	100	100	100	100								16
100	100	100	100	100	110				110			17
100	100	100	100	100	110						110	18
100	100	100	100	100	G							19
100	100	100	100	100								20
100	100	100	100	100								21
100	100	100	100	100	120							22
100	100	100	100	100								23
100	100	100	100	100								24
100	100	100	100	100								25
100	100	100	100	100								26
100	100	100	100	100								27
100	100	100	100	100	120	100						28
100	100	100	100	100						120	110	29
100	100	100	100	100								30
100	100	100	100	100	115	..	..	..	..	..	..	Mean
100	100	100	100	100	100	..	..	..	..	..	..	Median
28	26	27	30	29	7	1	..	1	3	2	4	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'Es

TABLE 54—Contd.

Latitude : 10° 2' N

Unit : Km

Ionospheric Data

Longitude : 77° 5' E

Month : November 1958

75° 0' E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	C						G	100	100	100	100	100
2							G	G	100	100	100	100
3							G	G	100	G	100	100
4							..	100	100	100	100	100
5							G	100	C	100	100	100
6							110	100	100	100	100	100
7							G	100	100	100	100	100
8							100	100	100	100	C	C
9							100	100	100	100	100	100
10							100	100	100	100	100	100
11				100			100	G	G	100	100	100
12							100	100	100	100	100	100
13							100	100	100	100	100	100
14							100	100	100	100	100	C
15	100						100	100	100	100	100	100
16							G	100	C	100	100	100
17							100	100	100	100	100	100
18							G	100	100	100	100	100
19	120	120	115				100	100	100	100	100	100
20							100	100	100	100	100	100
21							105	100	100	100	100	100
22							G	100	100	100	100	G
23							G	100	100	100	100	100
24				100			105	100	100	100	100	100
25					110		G	G	100	100	100	100
26							G	100	100	100	100	100
27	120	100	120				G	100	100	100	100	100
28		110	115				..	100	100	100	100	100
29							G	100	100	100	100	100
30	120						G	100	100	100	100	100
Mean	..	..	..	..	..	..	100	100	100	100	100	100
Median	..	..	..	..	..	..	100	100	100	100	100	100
Count	4	3	3	2	1	..	14	26	27	29	29	27

Sweep : Mo. 10.25 Mo. in 27 seconds.

Characteristic : h'Es

Unit : Km

Month : November 1958

TABLE 54—Contd.

Ionospheric Data

75°0' E Mean Time

Latitude : 40°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	100								1
100	100	100	100	105								2
100	100	100	100	105				105				3
100	100	100	100	105						105		4
C	C	C	G	100				100				5
100	100	100	100	100								6
100	100	100	100	100								7
C	C	C	100	100	C							8
100	100	100	100	100								9
G	100	100	100	100								10
100	100	100	100	100								11
100	100	100	100	100					110			12
100	100	100	100	100					115			13
100	100	100	G	100								14
100	G	100	100	100					120	100		15
100	100	100	100	105					110			16
100	100	100	100	105							110	17
100	100	100	100	100							110	18
100	100	100	100	105								19
100	100	100	100	105						120		20
100	100	100	100	100								21
100	100	100	100	105								22
100	100	100	100	105								23
100	100	100	100	105								24
G	100	100	100	100								25
100	100	100	100	105								26
100	100	100	100	110								27
100	100	100	100	110	100							28
100	100	100	100	100						115		29
100	100	100	100	105							120	30
100	100	100	100	105	..	..	..	..	..	..	..	Mean
100	100	100	100	100	..	..	..	..	..	..	..	Median
26	27	28	28	30	1	..	..	2	4	4	3	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : (M3000) F₂

TABLE 55

Latitude : 10° 2' N

Unit :

Ionospheric Data

Longitude : 77° 5' E

Month : November 1958

75° 0' E Mean Time.

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	U2'55F	F	2'95	F	F	3'25	2'90	2'80	2'55	2'20	C	2'10
2	C	C	F	2'85F	2'95	F	2'85	2'80	2'65	2'45	2'25	2'05
3	2'50	2'55	2'65	2'75	2'85	2'95	2'85	2'80	2'65	2'30	2'10	2'15
4	2'75	2'80	2'75	2'85	2'95	3'00	2'85	2'70	2'50	2'25	2'15	2'15
5	2'75	2'90	2'90	2'90	2'95	3'10	2'90	2'70	2'55	2'45	2'30	2'20
6	2'75	F	F	3'00	3'15	3'15	2'85	2'65	2'50	2'30	2'20	2'20
7	F	F	F	U3'00s	3'10	3'20	U2'95F	U2'80F	2'50	2'35	2'30	2'20
8	F	2'80	2'95	U3'10s	U3'15s	3'05	2'80	2'60	2'50	2'35	C	C
9	U2'80F	2'80	3'00	3'20	3'15	3'20	U2'80s	2'70	2'50	2'40	2'30	2'15
10	F	U3'00F	2'90	U3'05F	F	3'05	U2'85s	2'70	2'50	U2'40R	2'30	2'25
11	2'75	F	2'80	2'80	2'90	F	FS	2'50	2'50	2'50	2'30	U2'10R
12	U2'90F	2'95F	3'00	3'05	3'15	3'30	2'95	2'70	2'60	2'40	2'35	2'30
13	U2'75s	F	U3'10s	3'10	U3'05s	U3'10s	3'00	2'70	U2'45R	2'50	2'40	2'30
14	F	F	F	U3'30sT	U3'30s	3'30	3'00	2'75	U2'60R	2'45	2'40	2'35
15	F	U2'95F	F	3'35	3'40	3'30	U3'00s	2'80	U2'60s	2'45	2'35	2'35
16	F	F	F	F	J3'30R	3'40F	U3'20s	3'00	2'70	2'40	2'40	2'25
17	J3'10R	U3'30s	U3'50s	3'30	3'20	3'20	2'90	2'80	2'60	2'45	2'30	2'30
18	U2'70R	F	F	3'00	3'10	3'25	3'10	3'05	2'80	2'55	2'30	2'25
19	F	F	U2'75F	F	F	U2'60F	2'65	2'35H	2'50	2'45	2'40	2'30
20	F	F	U2'95F	3'10F	F	3'30F	F	2'65	2'50	2'40	2'30	2'20
21	F	F	F	3'15	F	F	F	2'80	2'50	2'40	2'30	2'25
22	F	F	3'15	U3'20R	3'30	3'00	2'85	2'90	2'65	2'45	2'30	2'30
23	F	F	F	3'10	F	F	F	2'75	2'55	2'30	2'30	2'15
24	F	2'70FH	J2'55F	F	F	U3'10F	2'75F	2'50	2'50	2'40	2'25	2'20
25	2'50	2'70	2'85	U2'75s	2'75	3'05	2'95	2'75	2'50	2'40	2'40	2'40
26	2'45	F	U2'50F	2'70	F	3'00	2'90	2'65	2'45	2'40	2'30	2'25
27	F	F	F	F	3'05	3'20	F	2'60	2'50	2'35	2'30	2'25
28	F	F	F	2'70	U2'80s	3'10	2'95	2'70	2'55	2'45	2'30	2'20
29	2'50	2'70	2'80	2'95	3'05	3'15	2'80	U2'75s	2'55	2'35	2'20	2'15
30	U2'50C	U2'75s	2'90	3'00	3'05	3'20	U2'80s	2'60	2'50	2'30	2'15	2'10
Mean	2'70	2'85	2'90	3'00	3'05	3'15	2'90	2'70	2'55	2'40	2'30	2'20
Median	2'75	2'80	2'90	3'00	3'10	3'15	2'90	2'70	2'50	2'40	2'30	2'20
Count	15	13	19	25	22	26	25	30	30	30	28	29

Sweep 1 . to 25 Mc. in 27 seconds.

Characteristic : (M3000) F₂

Unit :

Month : November 1958

TABLE 55

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
2'10	2'05	2'00	2'00	2'00	2'05	U2'10S	1'95	F	F	F	U2'50F	1
2'10	2'05	2'05	2'00	U2'10R	2'00	1'90	U1'95S	U1'85F	F	F	U2'60F	2
2'05	2'00	2'00	1'95	2'00	2'05	2'05	U2'00F	2'15	2'35	2'50	2'70	3
2'05	2'00	2'00	2'05	2'10	2'05	2'05	2'00	U2'05S	2'25	U2'35F	2'60	4
2'15	C	C	2'05	2'10	2'05	1'90	F	F	F	F	F	5
2'15	2'10	2'05	2'05	2'10	2'05	U2'00W	F	F	F	F	F	6
2'10	2'10	2'15	2'15	2'10	2'00	1'90	F	U1'90F	F	FS	F	7
C	C	C	2'05	U2'05S	C	C	F	F	F	F	F	8
2'15	U2'10R	2'05	U2'05S	2'05	2'10	2'05	1'85	U1'90F	F	F	F	9
2'20	2'20	2'20	2'10	2'05	2'00	1'90	U1'85F	F	F	U2'45F	F	10
2'10	2'20	2'25	2'15	2'15	2'00	1'90	F	F	F	F	2'60	11
2'25	2'20	2'10	2'10	2'10	J2'10R	U1'95S	F	F	F	F	U2'50F	12
2'40	2'30	U2'30R	U2'25R	U2'20R	U2'30R	R	U2'50F	F	F	F	F	13
C	C	J2'40R	2'40	2'40	U2'30S	J2'05R	F	F	F	F	F	14
2'30	2'30	U2'25R	U2'25S	J2'25R	2'20	U2'00R	F	F	F	F	F	15
2'25	2'30	2'25	2'15	2'20	U2'25R	U2'10S	U1'95W	U2'05F	U2'20F	U2'55HR	2'90R	16
2'30	2'20	2'15	U2'15R	2'15	2'10	2'05	F	F	U2'30F	F	U2'55R	17
2'20	2'10	2'15	U2'20S	U2'30S	J2'30R	U2'15S	U2'00F	FS	F	F	F	18
2'30	2'30	2'25	2'15	2'05	R	1'85H	1'90	F	F	F	J2'40F	19
2'15	2'10	2'05	2'10	2'15	2'10	2'00	1'90	F	F	F	F	20
2'20	2'20	2'10	2'10	2'05	2'05	1'90	1'90	F	F	F	2'45F	21
2'30	2'20	2'05	2'00	2'00	2'00	2'05	F	F	F	U2'40F	F	22
2'10	2'10	2'15	2'10	U2'10S	U2'05S	2'00	1'95	2'10FJ	2'05F	U2'00F	F	23
2'15	2'10	2'05	2'05	2'00	2'05	2'00	1'85	2'00	U2'10R	J2'40S	U2'45S	24
2'35	2'30	2'20	U2'10R	U1'90R	2'10	2'10	1'95	2'05	F	F	U2'40S	25
2'15	2'10	2'10	2'10	2'10	2'10	U2'05R	R	RS	1'95	F	F	26
2'25	2'20	2'10	2'00	2'00	U2'05S	U2'050	R	F	F	F	F	27
2'00	2'05	2'05	2'00	2'05	2'15	2'10	2'10	2'10	2'20	2'30	2'30	28
2'15	2'05	2'00	U2'10S	2'10	U2'05S	2'00	2'05	2'00	U2'05S	U2'10S	2'30	29
2'05	2'00	2'00	2'05	U2'10S	U2'00S	2'00	1'95	F	F	F	U2'20F	30
2'20	2'15	2'10	2'10	2'10	2'10	2'00	1'95	2'00	U2'15	U2'35	U2'50	Mean
2'15	2'10	2'10	2'10	2'10	2'05	2'00	1'95	2'05	U2'20	U2'40	U2'50	Median
28	27	28	30	30	28	28	18	11	9	9	15	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : (M3000) F2

TABLE 55—Contd.

Latitude : 10° 2' N

Unit :

Ionospheric Data

Longitude : 77° 5' E

Month : November 1958

75° 0' E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	F	U3'00F	F	3'05	2'45H	2'90	2'70	2'35	2'20	2'10	2'05
2	C	2'85	2'85F	F	F	2'90F	2'90	2'80	2'60	2'30	2'10	2'05
3	U2'60S	2'60	2'70	2'85	2'95	2'80	2'80	2'75	2'50	2'15	2'10	2'10
4	2'80	2'80	2'80	3'00	2'95	2'90	2'85	2'60	2'35	2'20	2'10	2'10
5	2'90	2'90	2'90	2'95	3'05	3'05	2'80	2'60	C	2'35	2'25	2'20
6	U2'60F	F	F	3'05	3'25	2'60H	2'80	2'60	2'40	2'25	2'15	2'20
7	F	F	U2'95F	3'00	3'15	3'05	U2'85F	2'60	2'40	2'30	2'25	2'10
8	U2'70F	2'80	U3'00S	3'15	3'10	2'95	U2'70S	J2'55S	2'40	2'35	C	C
9	U2'85F	2'95	U3'00S	3'25	3'05	2'85	U2'80S	2'55	2'40	2'35	2'20	2'10
10	F	U2'80F	F	F	3'20	2'80	2'80	2'65	2'50	2'30	2'25	2'20
11	J2'60S	2'70	F	2'85	F	U3'00F	2'70	2'45	2'50	2'40	U2'25R	2'05
12	U2'90S	3'00	U3'05S	3'10	3'20	3'05	2'85	2'60	2'45	2'40	2'30	2'25
13	F	J2'00R	3'10	U3'05S	U3'00S	3'05	2'90	2'45	2'50	J2'45R	2'30	2'35
14	F	F	F	F	3'30	U3'00HS	U3'00S	U2'60S	2'55	2'40	2'30	C
15	F	U3'05SF	U3'20S	3'20	3'30	2'60H	U2'90S	2'60	2'50	2'45	2'35	2'30
16	F	U3'10S	3'20	U3'40SF	U3'00HR	2'50H	3'10	J2'90R	C	2'40	2'35	J2'25R
17	3'15	3'40	3'30	3'30	3'25	2'60	U2'90S	2'65	2'60	2'40	2'20	2'30
18	U2'70F	F	3'00	3'10	3'25	3'20	U3'20S	2'95	2'65	2'40	U2'90R	U2'25R
19	F	F	2'65	2'60	F	U2'65F	2'55	2'55	2'50	2'40	2'30	2'30
20	2'55F	F	U3'10F	F	U3'30F	F	U2'80F	2'55	2'55	2'30	2'20	2'15
21	F	F	U3'00F	U3'10F	F	F	2'90	2'65	2'45	2'35	2'25	2'20
22	2'70F	U3'05F	3'25	3'25	3'15	2'45H	2'95	2'70	2'55	2'35	2'30	2'30
23	F	F	3'00	U3'05F	F	F	2'85	2'55	2'45	2'35	2'20	2'10
24	FH	U2'55HF	F	F	3'00F	F	U2'60F	2'60	2'50	2'30	2'25	2'20
25	2'60	2'90	2'80	2'80	U2'90S	3'15	2'85	2'70	2'45	2'35	2'35	2'35
26	F	2'60F	2'65	F	F	3'00	2'70	2'55	2'50	2'35	2'25	2'20
27	F	F	F	U3'00F	3'25	F	F	2'50	2'45	2'35	2'25	2'25
28	F	F	F	2'75	U3'05S	3'15	U2'90S	2'55	2'50	2'30	2'30	2'10
29	2'60	2'80	2'90	3'00	3'10	3'05	U2'80S	2'65	2'45	2'35	2'15	2'20
30	2'60	2'80	2'90	3'05	3'20	2'90	U2'70S	U2'60S	2'45	2'20	2'10	2'05
Mean	2'70	2'90	2'95	3'05	3'10	2'85	2'85	2'60	2'50	2'35	2'25	2'20
Median	2'70	2'85	3'00	3'05	3'10	2'90	2'85	2'60	2'50	2'35	2'25	2'20
Count	15	19	23	23	24	25	29	30	28	30	29	28

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : (M3000) F₂

Unit :

Month : November 1958

TABLE 55—Contd.

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2'05	2'05	2'00	2'00	2'00	U2'10S	U2'00S	U2'00F	F	F	F	C	1
2'05	2'05	2'05	2'00	2'00	U2'05S	1'90	1'90	U2'20S	2'45F	U2'60F	2'45	2
2'00	2'00	2'00	2'00	2'05	2'05	2'00	2'10	U2'30S	2'45	2'60	2'70	3
2'05	2'00	2'05	2'05	2'05	2'05	2'00	U2'00F	2'15	2'30	2'50	2'75	4
C	C	C	2'10	2'10	1'95	2'00	F	F	F	F	F	5
2'10	2'05	2'05	2'10	2'15	2'00	U1'90W	F	F	F	F	F	6
2'05	2'10	2'15	2'10	2'05	2'00	1'85	U1'85F	F	FS	FS	F	7
C	C	C	2'00	U2'05S	C	1'90	F	F	F	F	F	8
2'10	2'10	2'10	U2'10S	U2'05S	2'10	1'95	U1'85F	U2'00F	F	F	F	9
2'15	2'20	2'15	2'10	2'05	R	U1'85F	F	F	F	U2'35F	F	10
2'20	2'25	2'20	2'20	2'10	2'00	U1'80W	F	F	F	F	F	11
2'25	2'15	2'15	2'15	U2'10R	2'05	J1'90R	F	F	F	F	U2'60F	12
2'30	2'30	U2'25R	2'20	U2'25R	R	R	F	F	F	F	F	13
2'40	2'40	2'35	2'40	U2'40S	U2'15S	2'00	F	F	F	F	F	14
2'25	2'25	U2'25R	J2'25R	2'25	J2'05R	F	F	F	F	F	F	15
2'30	2'30	2'20	U2'20R	2'25	2'20	2'00	U2'00F	F	2'45	U2'70HR	2'95	16
2'25	2'15	2'15	U2'15S	2'15	S	U2'00S	F	F	F	U2'50F	U2'60R	17
2'10	2'10	2'20	2'30	U2'30S	J2'30R	U2'05S	2'00	F	F	F	F	18
2'30	2'25	2'20	U2'10R	2'05	2'00	2'00	U1'95F	F	F	J2'50F	F	19
2'15	2'05	2'05	2'15	2'15	2'05	1'90	U1'90F	F	F	F	U2'60F	20
2'15	2'15	2'10	2'10	2'10	2'00	1'90	F	F	F	F	2'55	21
2'25	2'15	2'05	J2'00R	2'05	2'05	1'90	F	F	F	F	F	22
2'10	2'10	2'10	2'10	J2'05S	2'05	1'95	2'00	F	U2'00F	F	F	23
2'15	2'05	2'05	U2'00S	2'05	U2'00S	1'90	2'00H	2'10H	J2'25S	2'40	2'50	24
2'30	2'25	2'15	2'00	E2'05W	2'15	2'05	1'95	U1'95F	F	2'20	U2'40F	25
2'15	2'10	2'05	2'10	2'05	U2'10R	U2'00R	U2'00R	1'95	F	F	F	26
2'20	2'15	2'05	U1'95R	U2'05S	U2'05S	2'00	F	F	F	F	F	27
1'90	2'00	2'00	2'00	2'05	2'20	2'05	2'10	2'20	2'25	2'35	2'40	28
2'05	1'95	2'05	2'10	2'05	U2'00S	2'00	2'00	U2'05S	U2'10S	U2'15S	2'40	29
2'00	2'00	2'05	U2'05R	U2'05S	E2'00W	U2'05S	F	F	F	F	F	30
2'15	2'15	2'10	2'10	2'10	2'05	1'95	2'00	2'10	2'30	2'45	2'60	Mean
2'15	2'10	2'10	2'10	2'05	2'05	2'00	2'00	2'10	2'30	2'50	2'60	Median
28	28	28	30	30	26	28	16	9	8	11	12	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F₂

TABLE 56

Latitude : 10° 2' N

Unit : Mc

Ionospheric Data

Longitude : 77° 5' E

Month : December 1958

75° 0' E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	F	U9'4F	9'0	U8'1F	7'4	4'8	6'8	10'1	11'7	11'5	11'0	10'8
2	F	F	U8'5F	7'8	7'8	6'3	7'1	10'8	12'7	13'1	12'9	12'7
3	11'2	U10'6s	U10'2F	10'6	10'2	U9'7s	10'3	11'5	13'0	13'1	12'2	11'3
4	10'8	10'3	10'2	9'8	7'7	U5'2s	U7'1s	10'6	12'9	13'7	14'6	15'0
5	U11'5s	11'5	11'7	11'3	10'2	U9'6s	U9'1s	9'1	9'0	9'3	U7'8W	U8'6W
6	U5'8F	U6'4F	U6'3F	F	5'4F	4'2	U6'2s	U9'3s	11'3	12'8	14'0	14'3
7	U8'7F	F	8'3	8'0	5'5	4'2	6'5	U10'0s	11'4	12'7	12'6	12'8
8	U8'9F	9'6	U8'9F	7'8	F	5'4	U7'3s	11'0	12'6	13'4	13'1	12'8
9	U9'4s	F	U7'5F	7'7	8'3	7'3	8'6	12'1	13'6	14'5	14'4	13'8
10	F	F	9'1	8'7	8'1	6'3	6'7	10'4	13'0	13'5	13'2	12'9
11	F	F	F	F	5'7	U3'9R	5'8	9'8	12'2	12'7	12'7	12'3
12	F	F	F	U7'3s	6'1	5'8	7'1	10'4	12'5	U13'1R	13'5	13'3
13	F	F	F	F	F	6'9	7'0	10'3	12'6	13'7	13'8	13'8
14	11'3	U11'9s	11'0	U9'6s	9'4	U7'6SF	5'7	U9'4s	11'6	12'6	U13'3R	13'3
15	F	U10'8F	11'0	U11'7s	11'4	8'9	8'8	10'5	11'3H	11'0	10'8	10'2
16	10'4	F	U9'4s	8'9	6'8	5'7	U6'2s	U9'8s	U11'7s	11'6	10'9	10'4
17	10'0	10'8	U9'8s	8'6	8'4	U7'6s	7'7	10'6	12'9	13'0	12'2R	11'3
18	9'8	9'8	10'6F	9'0	F	11'6	7'9	10'7	12'0	13'0	13'3	13'2
19	F	F	F	F	F	F	FS	12'4	13'8	U15'0F	14'4	14'6
20	U11'OR	J9'8s	U9'3s	9'5	U9'5s	J8'2R	6'4	10'0	12'0	12'7	U12'2R	11'6
21	7'8	7'7F	J7'5s	6'4	6'8	7'0	U7'4s	10'7	12'7	12'8	12'4	11'8
22	U9'8s	U9'5s	U9'4s	9'0	8'6	U7'5s	6'7	10'3	12'8	J13'2R	U13'OR	11'8
23	F	F	F	F	U8'8F	8'5	8'4	11'0	J13'2R	J13'2R	12'0	11'1
24	U9'4s	U9'8s	U10'1s	U9'2s	9'0	7'0	6'6	10'2	12'4	13'0	12'7	11'7
25	F	F	F	U7'5F	6'1	4'9	5'7	9'4	11'4	11'8	11'4	10'7
26	F	F	U6'9F	F	6'6F	5'6	U6'1s	10'1	12'2	13'4	13'8	13'2
27	9'9	U9'6s	8'8	7'8	6'8	6'8	8'0	11'0	12'4	13'3	12'8	11'9
28	U9'4s	U8'6s	8'7	8'4	7'5	4'6	5'6	9'7	12'0	12'4	11'6	11'4
29	8'5	7'9	F	7'6	8'1	6'4	6'6	10'5	12'3	13'0	12'6	11'5
30	U9'5s	9'1	9'0	9'0	8'5	J7'6s	J7'4s	10'4	12'2	11'6	10'8	10'2
31	10'1	U9'4s	8'8	8'5	8'7	7'6	7'0	10'8	12'6	12'6	12'5	11'5
Mean	9'7	U9'6	9'2	8'7	7'9	6'8	7'1	10'4	12'3	12'8	12'5	12'1
Median	9'8	U9'6	9'0	8'6	8'1	6'8	7'0	10'4	12'4	13'0	12'7	11'8
Count	20	19	24	25	27	30	30	31	31	31	31	31

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F2
Unit : Mc
Month : December 1958

TABLE 56
Ionospheric Data
75°0' E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
10.8	11.3	11.1	11.2	11.1	11.0	10.3	U8.6W	F	F	U8.0F	U9.1F	1
12.4	12.6	12.5	12.4	11.5	10.3	U9.6S	F	U9.5F	U10.4F	U11.8S	U11.6F	2
11.3	11.4	11.6	11.4	10.8	10.4	U10.2S	9.0	U8.6F	U9.2S	10.2	10.6	3
14.8	14.6	15.1	14.6	14.7	14.1H	12.5H	U11.0F	F	F	F	F	4
9.8	10.8	11.3	11.2	10.9	U9.6S	8.1	U6.7W	F	F	F	U5.3F	5
14.4	14.8	14.6	14.1	13.4	12.6	U11.3R	U11.2F	F	F	U10.4F	F	6
13.1	13.5	13.4	U12.8S	12.0	10.8	U9.5S	8.7	F	F	F	U 9.0F	7
12.4	11.8	11.5	10.9	10.4	9.9	U9.9S	U9.3S	F	F	F	F	8
13.4	12.7	12.8	12.9	12.3	11.7	10.7	8.8	F	F	U8.6F	F	9
12.2	11.8	11.7	11.5	11.0	10.5	U9.6S	8.9	F	F	F	F	10
12.4	11.8	11.5	11.4	11.5	11.6	11.2	10.3	10.0	10.7	F	U9.3S	11
U13.0R	12.8	12.7	12.2	11.4	U11.0S	10.8	10.1	9.5	9.3	U9.3S	F	12
13.8	13.9	13.9	U13.6R	U12.8R	U11.6S	11.0	F	F	11.6	11.4	U11.8S	13
13.0	13.4	13.3	13.1	13.0	U11.8S	11.0H	U10.4HF	F	F	C	F	14
10.1	10.0	9.9	10.0	10.0	U9.8S	U9.8S	U9.4S	8.7F	8.8F	10.3	11.2	15
10.4	10.8	11.0	11.5	11.7S	R	11.0	10.8	11.0	9.9	8.9	F	16
11.3	11.3	11.5	11.8	12.0	U12.0S	11.4	9.8	F	U9.8F	U10.4R	10.0F	17
13.8R	13.8R	14.0	14.4	14.4	14.0	13.3	U11.8S	F	F	F	F	18
J15.2R	14.8	J14.2R	14.0	13.6	U13.0R	U11.2SR	U10.6W	U9.5S	9.0	U9.2S	J11.2R	19
11.2	10.8	10.8	10.6	9.8	U9.7S	U9.2S	J8.2R	J7.3F	J7.4R	U7.3SF	J7.8S	20
12.0	11.9	11.9	12.2	U11.8S	11.2	U10.2S	10.4	J10.3R	9.0	U9.4S	U9.4S	21
11.8	12.0	12.2	12.5	12.8	U12.6S	U11.8S	10.4	F	F	F	F	22
11.3	11.1	11.0	11.6	12.4	J11.8R	U11.6S	J10.0R	U9.0F	9.0F	U10.2S	U10.5S	23
11.4	11.8	11.9	12.0	12.7	12.8	U12.8R	J12.0R	11.0F	10.4F	J10.2R	F	24
10.5	10.3	10.2	10.5	10.2	U10.2S	10.0	8.8	U7.4SF	J7.4SF	J7.2S	U7.8F	25
11.7	10.8	10.8	10.8	11.0	10.6	U9.5S	8.4	U8.8F	U9.4S	10.6	U9.7S	26
11.9	11.8	11.3	C	C	10.0	10.2	10.0	10.4	10.4	10.4	J10.4R	27
11.1	10.9	10.4	10.2	10.1	U9.8S	9.4	8.4	U8.6F	U8.8F	F	U9.4S	28
11.0	10.7	10.6	10.8	10.8	10.8	U10.3S	9.3	FS	10.6	F	J9.8S	29
9.6	10.0R	10.7	11.0	11.6	11.8	11.6	10.9	10.8	10.8	10.6	10.4	30
11.1	11.6	12.2	12.6	12.8	13.1	12.8	11.2	J9.0F	J9.6F	U9.6F	F	31
12.0	12.0	12.0	12.0	11.8	11.3	10.7	9.8	U9.4	9.6	U9.7	U9.7	Mean
11.8	11.8	11.6	11.7	11.6	11.1	10.7	10.0	U9.5	9.5	U10.2	U9.8	Median
31	31	31	30	30	30	31	29	17	20	20	19	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F2

Unit : Mc

Month : December 1958

TABLE 56—Contd.

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	U9'5F	U9'0F	7'8	6'4	4'6	8'8	11'1	11'6	11'3	10'9	10'9
2	F	F	8'4F	7'8	7'2	5'8						
3	10'8	U10'3S	10'1	10'6	9'8	10'2	U9'2S	11'8	13'1	13'1	12'6	12'6
4	10'7	10'2	10'0	8'6	6'5	4'9H	U9'2S	12'0	13'5	14'5	14'7	15'0
5	U11'6S	U11'7S	11'2	10'8	U9'3S	U9'2S	9'0	8'8	9'0	8'8	U8'0W	9'1
6	U6'4F	U6'8F	U5'7F	5'7F	4'9F	4'3H	8'3	10'8	12'2	13'5	14'2	14'3
7	U8'6F	U8'3F	8'3	U7'2S	4'8	U4'6F	8'6	10'7	12'2	12'7	12'7	13'1
8	9'3	9'7	8'3	7'3	F	5'4	9'5	12'2	13'1	13'2	12'8	12'7
9	9'2	F	U7'6S	8'1	7'8	U7'1S	10'6	12'8	14'2	14'4	14'0	13'7
10	F	8'8	8'9	8'5	7'6	5'0	8'8	11'9	13'6	13'6	U13'OR	12'4
11	F	F	F	U6'9S	4'5	3'1	8'3	11'4	12'6	13'0	12'5	12'3
12	F	F	F	6'8	6'0	5'4	8'9	11'7	13'2	13'4	13'3	13'4
13	F	F	F	F	7'8	5'7	8'8	11'5	13'2	14'1	13'8	13'6
14	11'3	12'1	U10'2S	U9'6S	8'4F	J8'1F	7'8	10'7	U12'OR	12'8	13'6	13'1
15	U10'4F	10'8	11'3	12'1	10'4	8'6	9'8	11'0H	10'9	11'0	10'7	10'4
16	U9'8S	F	U9'2S	8'2	6'2	4'7	8'0	10'9	12'0	U11'6R	10'5	10'5
17	10'7	10'6	U9'6S	8'7	8'2	U7'2S	9'4S	12'2	12'9	12'8R	11'8	11'3
18	9'6	10'8	9'6SF	8'9	10'6	9'4S	9'3	11'6	12'4	13'5R	13'2	13'5H
19	F	F	F	F	U9'2FS	F	FS	13'2	U14'4F	15'0	J14'9R	14'8
20	10'6	U9'2S	U9'5S	U9'5S	U9'2S	6'4	8'4	11'3	12'5	U12'6R	11'8	11'4
21	8'3	7'6	U7'0S	6'5	U7'2S	6'8	9'4	U11'8S	13'0	12'6	12'0	12'0
22	U9'6S	U9'4S	U9'2S	8'6	8'2	J6'3S	8'6	11'8	13'0	J13'2R	U12'4R	11'4
23	F	F	F	U9'0F	8'8	U8'2R	9'6	12'7	13'4	U13'OR	11'5	U11'OR
24	U9'2S	U10'0S	U9'8S	U9'2S	8'5	5'2	8'3	U11'6S	12'8	13'0	12'0	11'4
25	F	F	U7'6F	7'0	5'6	4'0	7'6	10'4	11'6	11'6	10'9	10'6
26	F	U7'1F	F	F	U6'5F	4'8	8'3	11'2	12'7	13'6	13'8	12'5
27	U9'5S	U9'1S	8'4	J7'4S	6'4	U6'9F	J9'6S	12'1	13'1	13'2	12'6	11'8
28	9'0	8'6	8'5	8'1	6'1	3'1	7'7	11'0	12'2	12'1	11'5	11'3
29	8'2F	J7'4F	U7'3F	7'8	7'5	5'3	8'8	11'5	12'8	13'1	J12'1R	11'0
30	U9'5S	U9'1S	8'7	9'0	7'9	U7'2S	U9'1S	11'6	12'2	11'0	10'6	9'8
31	9'8	9'1	8'5	8'8	8'3	6'5	9'1	12'0	12'6	12'9	11'8	11'2
Mean	9'6	U9'4	8'9	8'4	7'5	6'1	8'9	11'5	12'6	12'8	12'3	12'0
Median	9'6	U9'3	8'9	8'4	7'6	5'8	8'8	11'6	12'8	13'0	12'4	11'8
Count	21	22	25	28	30	30	30	31	31	31	31	31

Sweep: 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F2

Unit : Mc

Month : December 1958

TABLE 56—Contd.

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11.2	11.2	11.0	11.0	11.0	U10.2S	U9.5S	F	F	F	8.8	F	1
12.6	12.6	12.4	11.8	U10.8W	U9.9S	U10.1F	U9.5F	F	11.2	11.7	11.2	2
11.3	11.6	11.5	10.9	10.6	U10.1S	9.7	8.8	U9.0F	U9.6S	10.6F	10.8	3
14.7	14.6	14.6	14.7	14.4	13.9H	11.6F	U10.5F	F	F	F	F	4
10.3	11.1	11.4	11.0	10.6	8.8	U7.1S	U5.9F	F	F	F	U5.7F	5
15.0	14.7	14.5	13.7	U13.0R	U12.5H	11.3	U11.3FH	U10.7F	U10.6F	F	U8.8F	6
13.3	13.5	13.2	12.4	11.4	10.4	U9.3S	8.4	F	F	F	F	7
12.2	11.5	11.1	10.7	U10.2S	U10.0S	9.4	F	F	F	U8.6F	U8.9F	8
13.0	12.6	13.0	12.6	12.0	11.3	9.6	F	F	8.8	F	F	9
12.0	11.7	11.7	11.4	11.0	U10.3S	9.4	F	F	F	F	F	10
12.2	11.7	11.4	11.5	11.4	11.4	10.8	10.1	10.3	10.6	9.4	F	11
13.0	12.8	12.4	U11.8S	11.1	10.8	10.5	U9.7S	9.0	U9.4S	9.2	F	12
13.7	13.9	13.8	U13.4R	U12.5R	11.2	10.2	F	F	U11.4S	U11.6S	U11.4S	13
13.3	13.4	13.2	13.3	12.8	U10.0S	F	F	F	F	F	F	14
10.1	10.0	10.0	10.0	10.0	U9.8S	U9.9S	9.0	U8.8F	U9.5S	11.3	10.9	15
10.6	10.8	11.3	11.6	11.7S	U11.4R	10.8	10.8	10.6	9.1S	9.0	9.0F	16
11.3	11.3	11.6	12.0	12.0	U11.8S	10.8	R	9.0F	10.6	FS	U10.1F	17
13.8	14.0	14.3	14.4	14.2	13.8	R	U10.9R	F	F	F	F	18
U15.2R	14.4	14.0	13.8	U13.0R	U11.8S	J11.2RH	U9.2S	9.2	8.8	10.6	U10.8R	19
11.0	10.8	10.7	10.1	9.7	U9.6S	8.8	J8.2R	F	F	U7.7S	J7.4R	20
12.2	11.9	12.2	U12.4S	U11.5S	10.7	J10.3R	U10.0SR	U9.2SR	8.8	U9.6S	U9.8S	21
11.8	12.0	12.4	12.6	12.6	J12.2R	U11.2R	F	F	F	F	F	22
U11.2R	11.0	11.3	11.8	J12.2R	U11.8S	11.2	U9.5SF	U9.0F	U9.4S	J10.2R	J10.3R	23
11.6	11.8	11.9	12.4	12.8	13.0	12.8	11.4	11.0	J10.4HR	F	F	24
10.4	10.4	10.4	10.4	U10.3S	U10.0S	U9.6S	U8.0F	U7.0F	J7.6R	F	J7.4F	25
11.3	10.8	10.8	11.0	10.8	10.5	9.2	8.4	9.2	10.8	U9.7S	U9.6S	26
11.8	11.6	11.0	C	C	10.2	10.0	J10.2R	10.2	10.0	10.3	J10.2R	27
11.2	10.8	10.2	10.2	9.9	U9.6S	8.8	8.2F	U8.5F	F	F	U9.2S	28
10.8	10.6	10.7	10.7	10.9	10.5	U9.8F	FS	J10.0F	U10.9R	F	U9.2S	29
9.8	10.4	11.1	11.6	U12.0S	12.0	11.3	10.6	10.7	10.8	10.6	10.5	30
11.0	11.6	12.4	12.7	13.0	13.0	12.2	U9.7F	F	J9.4F	F	F	31
12.0	12.0	12.0	11.9	11.6	11.0	10.2	U9.5	9.5	9.9	9.9	9.5	Mean
11.8	11.6	11.6	11.8	11.4	10.7	10.1	U9.6	9.2	10.2	10.0	9.8	Median
31	31	31	30	30	31	29	22	17	20	16	19	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F1

Unit : Mc

Month : December 1958

TABLE 57

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	L	L	L	L
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	LH	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	LH	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Mean							
Median							
Count							

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F1

TABLE 57

Latitude : 10° 2' N

Unit : Mc

Ionospheric Data

Longitude : 77° 5' E

Month : December 1958

75° 0' E Mean Time

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
L	L	L	L	L								4
L	L	L	L	L								5
L	L	L	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	L								11
L	L	L	L	L								12
L	L	L	L	L								13
L	L	L	L	L								14
L	L	L	L	L								15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
L	L	L	L	L								20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
L	L	L	L	L								25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
L	L	L	L	L								31
..	..	..	..	..								Mean
..	..	..	..	..								Median
..	..	..	..	..								Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F1

TABLE 57—(Concl'd.)

Latitude : 10° 2' N

Unit : Mc

Ionospheric Data

Longitude : 77° 5' E

Month : December 1958

75° 0' E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							..	L	L	L	L	L
2							..	L	L	L	L	L
3							..	L	L	L	L	L
4							L	L	L	L	L	L
5							L	L	L	L	L	L
6							..	L	L	L	L	L
7							L	L	L	L	L	L
8							..	L	L	L	L	L
9							..	L	L	L	L	L
10							..	L	L	L	L	L
11							..	L	L	L	L	L
12							..	B	L	L	L	L
13							..	L	L	L	L	L
14							..	L	L	L	L	L
15							L	L	L	L	LH	L
16							..	L	L	L	LH	L
17							..	L	L	L	L	LH
18							..	L	L	L	L	L
19							..	L	L	L	L	L
20							..	L	L	L	L	L
21							..	L	L	L	L	L
22							..	L	L	L	L	L
23							..	L	L	L	L	L
24							..	L	L	L	L	L
25							..	L	L	L	L	L
26							L	L	L	L	L	L
27							..	L	L	L	L	L
28							L	L	L	L	L	L
29							..	L	L	L	L	L
30							..	L	L	L	L	L
31							L	L	L	L	L	L
Mean						
Median						
Count						

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo F1

Unit : Mc

Month : December 1958

TABLE 57—(Concl'd.)

Ionospheric Data

75°0° E Mean Time

Latitude : 10°2° N

Longitude : 77°5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L	..								1
L	L	L	L	..								2
L	L	L	L	..								3
L	L	L	L	..								4
												5
L	L	L	L	..								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
												10
L	L	L	L	L								11
L	L	L	L	L								12
LH	LH	L	L	L								13
L	L	L	L	..								14
												15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	L								19
												20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
												25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
L	L	L	L	L								31
..	..	..	..	..								Mean
..	..	..	..	..								Median
..	..	..	..	..								Count

Sweep : Mc. to 25 Mc. in 27 seconds.

Characteristic : fo E

TABLE 58

Latitude : 10° 2' N

Unit : Mc.

Ionospheric Data

Longitude : 77° 5' E

Month : December 1958

75° 0' E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								A	A	A	A	A
2								3.0	A	A	A	A
3								2.9	3.4	A	A	A
4								2.8	3.3	A	A	A
5								A	A	A	A	A
6								2.9H	3.6H	4.0	A	4.2
7								A	A	A	A	A
8								2.8H	U3.6A	A	A	A
9								U2.9R	3.7	A	A	A
10								2.8H	A	A	A	A
11								A	A	A	A	A
12								2.8R	3.4	A	A	A
13								2.8	U3.4R	R	A	A
14								A	A	A	B	A
15								A	A	A	A	A
16								A	A	A	A	A
17								2.7	3.2A	A	A	A
18								2.4HR	3.1	B	A	A
19								U2.7H	3.2H	U3.5R	A	A
20								A	A	A	A	A
21								U2.7AR	A	A	A	A
22								U2.8F	U3.2R	A	A	B
23								2.7H	A	A	A	A
24								2.6H	A	A	A	A
25								A	A	A	A	A
26								2.7	3.0	A	A	A
27								2.4	A	A	A	A
28								2.5	A	A	A	A
29								2.6	A	A	A	A
30								2.6H	A	A	A	A
31								2.6	A	A	A	A
Mean								2.7	3.3	..	..	..
Median								2.7	3.4	..	..	..
Count								22	12	2	..	..

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo E

Unit : Mc

Month : December 1958

TABLE 58

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	A	A	A	..							1
A	A	A	A	A	..							2
A	A	A	3.6	A	2.5							3
A	A	A	A	A	..							4
A	A	A	A	A	..							5
A	4.0	A	A	A	..							6
A	A	A	A	A	R							7
A	A	A	A	A	..							8
A	A	A	A	A	A							9
A	A	A	A	A	A							10
A	A	A	A	A	..							11
B	A	A	A	A	A							12
A	A	A	A	A	U2.3R							13
U4.0A	U4.0R	U3.9A	A	A	..							14
A	A	A	A	A	..							15
U4.0A	A	A	A	A	..							16
A	A	U3.7A	A	A	..							17
A	A	B	3.4	A	..							18
A	A	A	A	A	..							19
A	A	A	A	B	A							20
A	A	A	A	A	A							21
B	A	A	A	A	A							22
B	B	A	U3.6A	A	A							23
A	A	A	A	U3.1R	U2.5HR							24
A	A	A	A	A	A							25
A	A	A	A	A	A							26
A	A	A	A	C	..							27
A	A	A	A	A	A							28
A	A	A	A	U3.1A	A							29
A	A	A	3.5	A	A							30
A	A	U3.6A	3.6	3.2	A							31
..	..	..	3.5	..	..							Mean
..	..	..	3.6	..	..							Median
2	2	3	5	3	3							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo E

TABLE 58—(Contd.)

Latitude : 10° 2' N

Unit : Mc.

Ionospheric Data

Longitude : 77° 5' E

Month : December 1958

75° 0' E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							A	A	A	A	A	A
2							2'5H	A	3'9	A	A	A
3							U2'5R	3'2	A	A	A	A
4							..	3'0	3'4	A	4'0	A
5							..	A	A	A	A	A
6							2'4	3'2H	3'7	R	4'2	A
7							U2'3R	A	A	A	A	A
8							U2'4R	3'1	A	A	A	A
9							U2'4R	3'3	3'8	A	A	A
10							R	3'2	A	A	A	A
11							2'5H	A	A	A	A	A
12							U2'3R	B	A	A	B	A
13							..	U3'0A	U3'7R	A	A	A
14							R	A	A	A	U4'0A	U4'0A
15							F	A	A	A	A	B
16							U2'4R	U3'9A	A	A	A	U3'9A
17							R	3'1R	A	A	A	A
18							2'2	2'9HR	R	A	A	A
19							..	U3'0HR	U3'4R	A	A	A
20							2'2	A	A	A	A	A
21							2'2	A	A	A	A	B
22							U2'2R	3'0	A	A	A	B
23							2'1	A	A	A	A	B
24							..	U3'0HR	A	A	A	A
25							2'2H	A	A	A	A	A
26							2'2	2'9	3'3	A	A	A
27							2'2H	2'8	A	A	A	A
28							2'2	A	A	A	A	A
29							2'1	3'0	A	A	A	A
30							2'1	3'0	A	A	A	A
31							U2'1R	3'0	A	A	A	A
Mean							2'3	3'0	3'6	..	..	..
Median							2'2	3'0	3'7	..	..	..
Count							21	18	7	..	3	2

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo E

TABLE 58—(Contd.)

Latitude : 10° 2' N

Unit : Mc

Ionospheric Data

Longitude : 77° 5' E

Month : December 1958

75° 0' E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	A	A	...							1
A	A	A	A	A	...							2
B	A	A	A	A	...							3
A	A	A	3'3	A	...							4
A	A	A	A	A	...							5
R	3'9	A	A	A	...							6
B	A	A	A	A	...							7
A	A	A	A	A	...							8
A	A	A	A	A	...							9
A	A	A	A	A	...							10
A	A	A	A	A	...							11
B	A	A	A	A	...							12
A	A	A	A	A	...							13
U4' OR	A	A	A	A	...							14
A	A	A	A	A	...							15
A	A	A	A	A	...							16
A	A	A	A	A	...							17
A	A	A	A	A	...							18
A	A	A	A	A	...							19
A	A	A	A	A	...							20
A	A	A	A	A	...							21
B	A	A	A	A	...							22
B	B	A	A	A	...							23
A	A	A	A	A	...							24
A	A	A	A	A	...							25
A	A	A	A	A	...							26
A	A	A	A	A	...							27
A	A	A	A	A	...							28
A	A	A	A	A	...							29
A	A	A	A	A	...							30
A	A	3'6	3'4	3'0	...							31
..	..	..	3'4	..	..							Mean
..	..	..	3'4	..	..							Median
I	I	I	5	3	I							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo Es

Unit : Mc

Month : December 1958

TABLE 59

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								7.7	10.2	11.0	12.0	12.0
2	4.1							G	9.3	11.0	11.8	12.0
3						4.6		G	8.0	11.0	11.6	11.8
4								G	G	8.4	10.0	10.6
5	06.08	07.88			5.4			9.6	8.8	9.8	11.0	11.0
6								G	G	G	6.6	3.9
7								7.3	8.6	10.2	10.8	10.7
8								G	7.6	10.1	11.6	11.2
9							3.4	G	8.4	10.2	11.2	11.1
10								G	6.8	9.8	10.6	11.1
11								6.8	9.0	9.4	10.8	10.9
12								G	6.9	9.8	11.1	11.3
13								G	G	G	11.2	11.0
14						2.2		7.0	9.0	10.4	G	11.0
15			2.2					6.8	9.0	10.0	11.2	11.0
16								7.0	10.4	11.0	11.0	11.4
17								G	8.2	9.6	10.2	11.0
18								G	G	G	9.0	7.2
19								G	3.4	G	9.8	8.6
20								3.4	8.3	8.4	11.0	11.2
21								6.6	8.6	9.8	11.0	10.8
22								G	G	10.8	12.0	11.0
23						3.5		G	8.6	10.4	11.6	B
24								G	7.0	9.8	11.6	12.0
25								7.0	8.8	10.8	11.6	12.0
26								G	G	8.4	10.6	10.6
27		3.7						G	6.8	8.8	11.0	10.2
28								G	7.7	9.8	10.8	11.2
29								G	6.8	9.6	11.8	11.4
30								G	8.4	8.8	10.8	10.8
31								G	8.2	9.4	11.2	11.6
Mean								6.9	7.7	9.9	10.9	10.7
Median								G	8.2	9.8	11.0	11.0
Count	2	2	1	..	2	2	1	31	31	31	31	30

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo Es
Unit : Mc.
Month : December 1958

TABLE 59
Ionospheric Data
75°0' E Mean Time

Latitude : 10°2' N
Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date.
12.0	11.6	11.8	11.0	8.8								1
11.6	11.8	10.8	10.0	8.4								2
11.4	11.0	11.0	10.8	8.4								3
9.4	11.0	9.8	5.4	5.0	G			2.8			8.6	4
10.7	10.8	10.8	10.8	8.7								5
10.0	5.8	9.8	9.6	8.7								6
10.5	11.2	11.4	10.8	8.6	G							7
11.3	10.8	10.6	10.6	8.8	2.6							8
11.2	10.4	10.0	10.3	8.0	5.6							9
11.0	11.0	9.8	10.4	8.6	07.4 ²⁵							10
11.0	11.8	11.2	11.2	10.6								11
B	11.2	11.0	9.7	8.6	06.6 ²⁵				3.2	3.3	2.8	12
11.0	11.2	11.0	10.6	8.2	G						3.0	13
11.0	9.6	7.2	10.4	8.0	4.4							14
11.0	11.0	11.0	10.0	8.2	3.0							15
11.6	11.0	10.4	9.0	7.0	6.4							16
11.0	11.0	11.0	8.6	8.4	6.2				2.4			17
9.2	8.4	8.0	6.4	7.6								18
10.8	12.6	8.6	10.0	9.2	8.0							19
11.4	10.6	11.0	11.0	8.6	8.0							20
10.4	10.0	11.0	10.0	8.6	S							21
11.6	11.2	9.8	7.8	8.4	S							22
B	11.0	11.0	7.0	7.8	S							23
12.0	11.1	11.0	8.4	G	G				06.0 ²⁵			24
12.0	12.0	12.0	11.4	8.6	S							25
10.8	10.8	10.6	9.6	7.6	6.6							26
10.8	11.0	11.2	G	G	3.2	1.9						27
11.2	11.0	10.4	9.4	8.8	06.0 ²⁵							28
11.6	11.2	10.5	9.0	6.7	06.2 ²⁵							29
10.8	10.8	10.6	6.2	7.8	5.5			2.6				30
11.0	9.8	7.0	5.8	G	S			1.9				31
11.0	10.8	10.4	9.4	8.2	5.7	..						Mean
11.0	11.0	10.8	10.0	8.4	5.6	..						Median
29	31	31	30	30	19	1	..	3	3	1	3	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fo Es

TABLE 59 (Contd.)

Latitude : 10.2° N

Unit : Mc

Ionospheric Data

Longitude : 77.5° E

Month : December 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							7.8	8.8	10.0	12.0	12.0	12.0
2	4.3						G	8.2	9.6	11.8	11.1	12.0
3							G	G	10.0	11.8	11.6	11.8
4								8.2	8.4	8.8	8.8	11.6
5	U5.08	2.4			2.5			8.4	10.6	11.0	11.0	10.8
6							G	G	G	G	G	4.2
7							G	7.8	9.3	10.4	11.0	10.6
8							G	6.8	9.4	11.1	11.4	11.6
9							4.6	G	8.9	10.9	11.3	11.6
10			3.6				G	G	8.6	11.2	11.4	12.0
11							G	8.5	10.2	10.6	11.2	11.6
12							G	B	8.7	10.6	11.0	11.5
13								G	G	8.8	11.0	11.2
14						2.8	G	8.6	8.6	11.0	11.0	10.6
15							G	8.0	9.8	11.4	11.0	10.4
16							G	8.8	10.6	11.0	11.3	11.8
17							G	G	9.2	11.0	11.6	11.2
18							G	G	9.4	8.0	8.0	8.2
19								3.2	6.0	9.0	9.2	10.0
20							G	3.7	8.2	11.2	11.0	10.6
21							G	U7.45	9.3	11.0	11.2	9.0
22							G	G	9.4	11.6	11.8	11.2
23					2.8		G	6.4	10.4	11.8	11.0	B
24								G	9.6	11.0	12.0	12.2
25							G	8.4	9.8	11.4	11.4	11.6
26							G	G	G	9.2	10.6	11.2
27		2.4					G	G	6.8	10.0	10.8	10.1
28							G	6.8	8.8	10.8	11.0	11.2
29							G	G	9.8	11.0	11.7	11.8
30							G	6.6	9.0	10.8	10.6	10.6
31							G	G	8.8	11.2	11.7	11.2
Mean	..	..	..	..	..	..	..	7.3	9.2	10.7	11.0	10.9
Median	..	..	..	..	..	..	G	5.0	9.3	11.0	11.0	11.2
Count	2	2	1	1	1	1	26	30	31	31	31	30

Sweep : Mc. to 25 Mc. in 27 seconds.

Characteristic : fo Es

Unit : Mc.

Month : December 1958

TABLE 59 (Contd.)

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
11.6	11.6	10.8	9.8	8.2								1
12.0	12.0	B	8.8	6.6							2.3	2
11.2	10.4	11.4	8.7	7.8								3
11.4	8.2	9.4	9.8	5.4						U5.8s	9.8	4
10.6	10.5	10.8	8.7	7.6								5
G	8.4	10.6	8.6	7.6								6
11.0	11.3	11.0	10.3	7.7								7
11.2	11.1	10.3	9.2	8.0								8
11.6	9.1	10.8	8.4	6.8								9
11.4	10.4	10.1	8.8	8.3								10
11.4	11.2	11.3	8.8	4.4								11
10.8	11.3	10.6	8.6	8.0						U6.4s		12
11.2	11.4	10.8	8.4	6.6								13
10.4	7.4	8.0	7.8	8.6								14
11.0	10.8	10.4	8.2	8.0								15
11.2	11.0	10.0	8.4	7.0								16
11.0	11.0	10.0	8.2	7.0								17
8.8	8.0	G	6.8	7.0								18
12.0	8.4	10.0	8.8	8.2								19
10.0	11.0	10.8	9.0	8.0								20
10.0	10.4	10.8	8.4	8.6								21
11.6	11.0	9.4	7.6	8.0								22
10.6	11.0	8.4	7.6	7.8						2.4		23
11.0	11.0	10.0	6.4	G						5.8		24
12.0	12.0	11.6	9.4	7.4	G					2.3		25
11.0	10.6	10.2	7.8	7.6								26
10.2	11.4	11.0	6.0	C	3.5							27
10.8	11.0	10.8	9.2	7.8								28
11.2	10.8	10.6	8.4	7.8								29
10.3	10.8	8.6	6.0	6.8	2.6		1.7	2.1				30
10.8	8.4	6.3	G	5.6								31
11.0	10.4	10.2	8.5	7.4	..	..	..	..	..	..	..	Mean
11.0	11.0	10.5	8.5	7.6	..	..	..	..	..	..	..	Median
31	31	30	30	30	3	..	1	1	3	2	2	Count

Sweep : Mc. to 25 Mc. in 27 Seconds.

Characteristic : fb Es

Unit : Mc.

Month : December 1958

TABLE 60

Ionospheric Data

75.0° E Mean Time

Latitude : 10° 2' N

Longitude : 77° 5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								3'1	3'6	4'0	4'2	4'6
2	2'4							..	3'7	4'2	4'4	4'4
3						2'3		..	3'5	4'0	4'3	4'5
4								..	..	4'0	4'3	4'7
5		2'9			1'8			3'0	3'5	3'9	4'2	4'3
6								..	..	..	4'3	..
7								2'8	3'5	4'1	4'0	4'5
8								..	3'4	4'0	4'3	4'5
9							2'3	..	3'5	4'1	4'4	4'4
10								..	3'4	4'0	4'1	4'4
11								2'8	3'4	3'8	4'2	4'5
12								..	3'4	4'0	4'2	4'4
13								..	..	..	4'2	4'3
14						2'0		2'8	3'5	4'0	..	4'3
15								2'7	3'4	3'8	4'0	4'4
16								2'8	3'4	3'9	4'2	4'3
17								..	3'4	3'8	4'0	4'2
18								..	..	..	4'2	4'4
19								..	3'2	..	4'0	4'2
20								2'8	3'2	3'8	3'8	4'0
21								2'8	3'3	3'8	4'0	4'1
22								..	..	3'8	4'4	..
23					2'2			..	3'4	4'0	4'0	..
24								..	3'2	3'6	4'0	4'4
25								2'7	3'4	3'8	4'0	4'2
26								..	..	3'7	4'0	4'3
27		2'4						..	3'2	3'8	4'0	4'2
28								..	3'2	3'8	4'1	4'2
29								..	3'4	4'0	4'1	4'3
30								..	3'2	3'7	4'2	4'2
31								..	3'2	3'8	4'1	4'2
Mean	..	..	..	..	..	..	..	2'8	3'4	3'9	4'1	4'3
Median	..	..	..	..	..	..	..	2'8	3'4	3'9	4'2	4'3
Count	1	2	..	..	2	2	1	10	25	27	30	28

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : fb Es

Unit : Mc

Month : December 1958

TABLE 60

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Days
4.7	4.4	4.1	3.6	3.1								1
4.5	4.5	4.1	3.9	3.2								2
4.3	4.5	4.0	3.9	3.2								3
4.5	4.4	4.1	4.2	4.2								4
4.5	4.4	4.0	3.7	3.2				2.0			2.6	5
4.6	4.3	4.0	3.6	3.2								6
4.5	4.5	4.0	3.7	3.4								7
4.4	4.3	4.0	3.8	3.2	2.4							8
4.3	4.3	4.0	3.6	3.2	2.4							9
4.3	4.5	4.0	3.7	3.0	2.4							10
4.6	4.4	4.0	3.7	5.0	..							11
..	4.3	4.0	3.6	3.3	2.3						2.1	12
4.3	4.2	4.0	3.6	3.2	..							13
4.3	4.3	4.0	4.2	3.2	2.4						1.9	14
4.2	4.2	4.0	3.6	3.1	..							15
4.2	4.2	4.0	3.5	3.1	2.4							16
4.4	4.2	4.0	3.6	3.2	..							17
4.2	4.2	4.0	3.7	3.0	..							18
5.0	5.4	3.8	3.6	3.1	2.5							19
4.2	4.2	4.0	3.7	..	..							20
4.3	4.0	4.0	3.6	3.2	2.6							21
..	4.4	4.4	3.8	3.2	2.6							22
..	..	4.2	3.8	3.2	2.4							23
4.2	4.2	4.0	3.7	..	..							24
4.2	4.2	4.0	3.8	3.2	2.5				2.2			25
4.2	4.1	4.0	3.6	3.2	2.5							26
4.2	4.2	4.0	3.6	3.0	2.5							27
4.3	4.2	4.0	3.6	3.1	2.4							28
4.2	4.4	4.0	3.6	3.2	2.5			2.0				29
4.2	4.2	4.0	3.6	3.6	2.8							30
4.4	4.1	4.0	..	..	2.6							31
4.3	4.3	4.0	3.7	3.3	2.5	..	..	..	..	..	..	Median
4.3	4.3	4.0	3.7	3.2	2.5	..	..	..	..	..	..	Mean
28	30	31	29	27	17	..	..	2	1	..	3	Count

Sweep in 1 Mc. to 25 Mc. in 27 Seconds.

Characteristic : fb Es

Unit : Mc

Month : December 1958

TABLE 60 (Contd.)

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							2.6	3.3	3.9	4.1	4.4	4.6
2	2.2						..	3.2	4.0	4.3	4.5	4.5
3							..	..	3.7	4.0	4.4	4.3
4							..	3.1	3.8	4.2	4.4	6.4
5	2.4				2.0		..	3.1	3.8	4.0	4.4	4.5
6							..	..	..	..	..	4.2
7							..	3.3	3.8	4.2	4.2	4.3
8							..	3.1	3.6	4.1	4.3	4.4
9							2.5	..	3.8	4.1	4.4	4.4
10							..	..	3.6	4.0	4.3	4.4
11							..	3.1	3.7	4.2	4.3	4.4
12							..	..	3.9	4.1	4.6	4.4
13							..	..	..	4.0	4.3	4.3
14						1.8	..	3.1	3.8	4.0	4.4	4.2
15							..	3.0	3.6	3.9	4.2	..
16							..	3.2	3.8	4.1	4.2	4.3
17							..	..	3.7	4.0	4.2	4.2
18							..	..	3.6	3.8	4.0	4.2
19							..	3.0	3.6	3.8	4.2	4.6
20							..	3.0	3.4	3.8	4.2	4.2
21							..	3.0	3.6	3.9	4.0	..
22							..	..	3.6	4.2	4.3	..
23					1.8		..	3.0	3.6	4.0	4.2	..
24							..	..	3.6	4.0	4.0	4.2
25							..	3.0	3.6	3.9	4.2	4.2
26							..	..	..	4.0	4.1	4.4
27		1.8					..	..	3.6	4.0	4.2	4.2
28							..	3.0	3.5	4.0	4.1	4.2
29							..	..	3.7	4.0	4.2	4.2
30							..	3.0	3.6	4.0	4.2	4.2
31							..	..	3.6	4.0	4.2	4.4
Mean	..	..	..	..	..	..	..	3.1	3.7	4.0	4.2	4.4
Median	..	..	..	..	..	..	..	3.1	3.6	4.0	4.2	4.3
Count	2	1	..	1	1	1	2	17	28	30	30	27

Sweep : Mc. to 25 Mc. in 27 seconds.

Characteristic : fb Es

Unit : Mc

Month : December 1958

TABLE 60 (Contd.)

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
4.5	4.3	3.8	3.4	2.8								1
4.4	4.2	..	3.7	2.8								2
..	4.2	3.8	3.4	2.8								3
4.6	4.2	4.0	6.1	4.2								4
4.5	4.3	4.2	3.5	2.8						2.6	3.5	5
..	4.3	4.0	3.5	2.9								6
4.5	4.3	4.0	3.4	3.0								7
4.3	4.2	4.2	3.5	2.8								8
4.3	4.2	3.8	3.5	2.8								9
4.4	4.2	3.9	3.4	2.9								10
4.6	4.3	3.8	3.7	4.1								11
..	4.2	3.9	3.4	2.8						2.2		12
4.3	4.2	3.8	3.4	2.8								13
4.3	4.4	3.8	3.6	2.8								14
4.2	4.0	3.8	3.4	2.8								15
4.4	4.0	3.8	3.2	2.8								16
4.2	4.1	3.9	3.4	2.8								17
4.2	4.1	..	3.5	2.8								18
6.0	3.9	3.6	3.5	2.8								19
4.2	4.1	3.8	3.6	..								20
4.0	4.0	3.8	3.2	2.8								21
..	4.3	4.0	3.6	3.0						2.0		22
..	..	3.9	3.6	2.9						2.1		23
4.3	4.1	3.9	3.6	..						1.5		24
4.2	4.1	3.8	3.4	2.8								25
4.3	4.1	3.8	3.5	2.9								26
4.2	4.1	4.4	C	C	2.0							27
4.2	4.0	3.8	3.4	2.8								28
4.2	4.1	3.8	3.5	2.9								29
4.4	4.0	3.9	..	3.2	2.4			1.6				30
4.2	4.0	..	..	..								31
4.4	4.2	3.9	3.6	2.9	..	..	..	..	..	..	..	Mean
4.3	4.2	3.8	3.5	2.8	..	..	..	..	..	..	..	Median
26	30	28	28	27	2	..	..	1	3	2	2	Count

Sweep : Mc. to 5 Mc. in 27 seconds.

Characteristic - f min

Unit : Mc

Month : December 1958

TABLE 61

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	2.2	1.6	1.4	1.7	1.5	1.8	2.0	1.9	2.4	2.6	2.8	3.2
2	1.8	1.7	1.8	1.8	1.8	1.6	2.0	2.2	2.8	3.2	3.4	3.5
3	1.7	1.5	1.3	1.6	1.4	1.3	1.9	2.2	2.3	3.0	3.2	3.0
4	1.7	2.1	1.9	1.6	1.6	1.6	2.0	2.2	2.6	2.7	3.0	2.9
5	1.8	1.8	2.2	2.2	1.4	1.8	2.0	2.0	2.4	2.6	3.0	3.1
6	1.9	1.4	1.9	1.8	1.4	1.6	1.9	2.1	3.0	3.2	3.0	3.0
7	1.6	1.5	1.9	1.7	1.7	1.6	1.9	2.2	2.5	2.7	2.7	3.1
8	1.5	1.7	1.5	1.5	1.6	1.8	1.9	2.1	2.5	2.6	2.9	3.3
9	1.9	1.6	1.7	1.6	1.6	1.8	2.3	2.2	2.5	3.0	3.1	3.2
10	1.7	1.6	1.8	1.5	1.9	1.6	1.9	2.2	2.5	2.7	2.9	3.0
11	2.1	1.5	1.7	1.4	1.6	1.5	1.9	1.9	2.3	2.6	3.0	3.1
12	2.0	2.0	1.6	1.6	1.4	1.6	1.8	2.2	2.5	3.0	3.2	3.2
13	2.1	1.6	2.0	1.6	1.5	1.6	1.9	2.1	2.7	3.0	3.0	3.2
14	1.9	1.4	1.4	1.7	1.4	1.2	1.8	1.9	2.4	2.6	4.8	3.0
15	2.0	1.9	1.4	1.4	2.2	1.7	1.7	1.8	2.2	2.4	2.7	3.2
16	2.0	1.5	1.5	1.7	1.5	1.5	1.9	2.2	2.4	2.8	3.0	3.0
17	1.3	1.2	1.4	1.4	1.8	1.7	1.9	2.2	2.4	2.6	2.8	2.8
18	1.6	1.7	1.6	1.4	1.5	1.7	1.6	1.7	2.4	3.8	2.9	2.8
19	1.7	2.0	1.5	1.6	1.4	1.6	1.8	2.0	2.2	2.9	2.8	3.0
20	1.6	1.6	1.9	1.6	1.3	1.6	1.7	1.6	2.0	2.4	2.6	2.7
21	1.6	1.3	1.4	1.5	1.7	1.6	1.7	1.9	2.2	2.4	2.8	3.0
22	1.3	1.6	1.3	1.5	1.5	1.4	1.8	1.9	2.4	2.4	3.2	4.9
23	1.6	1.8	1.7	1.6	1.6	2.1	1.8	1.9	2.4	2.6	2.9	6.0
24	1.5	1.4	1.6	1.5	1.6	1.5	1.7	2.2	2.4	2.6	2.8	3.2
25	1.8	1.4	1.6	1.5	1.3	1.8	1.8	1.7	2.0	2.5	2.6	2.8
26	2.1	1.7	1.7	1.9	1.7	1.7	1.7	2.2	2.4	2.7	2.7	3.1
27	1.4	1.7	1.7	1.5	1.5	1.4	1.7	1.9	2.0	2.5	2.6	2.7
28	1.6	1.7	1.7	2.0	1.9	1.8	1.8	1.8	2.1	2.5	2.6	2.7
29	1.5	1.6	1.5	1.6	1.4	1.5	1.7	1.9	2.3	2.6	2.8	2.8
30	1.5	1.4	1.8	1.8	1.7	1.5	1.6	1.7	2.2	2.6	2.8	2.8
31	1.3	1.6	1.6	1.6	1.6	1.7	1.6	2.1	2.2	2.6	2.7	3.0
Mean	1.7	1.6	1.6	1.6	1.6	1.6	1.8	2.0	2.4	2.7	2.9	3.2
Median	1.7	1.6	1.6	1.6	1.6	1.6	1.8	2.0	2.4	2.6	2.9	3.0
Count	31	31	31	31	31	31	31	31	31	31	31	31

Sweep: 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : f min

Unit : Mc

Month : December 1958

TABLE 61
Ionospheric Data
75.0° E Mean Time

Latitude : 10° 2' N

Longitude : 77° 5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
3'6	3'0	3'0	2'6	2'2	2'5	1'5	1'6	1'9	2'0	1'7	1'8	1
3'4	3'2	3'1	3'1	2'6	2'5	1'5	1'5	2'0	2'0	2'3	2'1	2
3'0	3'5	3'0	3'0	2'4	2'4	1'5	1'6	1'9	1'7	1'7	1'4	3
3'5	3'2	2'9	2'7	3'3	2'2	1'7	1'8	1'1	1'8	2'1	1'8	4
3'1	3'2	2'8	2'6	2'3	2'5	1'5	1'3	1'9	1'8	1'8	2'0	5
3'1	3'5	2'8	2'7	2'4	1'6	1'5	1'7	1'8	1'7	2'1	1'9	6
3'4	3'3	3'0	2'6	3'4	2'2	1'5	1'6	1'7	1'7	1'5	1'7	7
3'0	3'2	2'6	2'6	2'2	2'1	1'8	2'2	2'1	2'0	1'9	2'1	8
3'2	3'3	2'8	2'4	2'2	1'9	1'6	1'9	1'9	1'8	1'9	1'7	9
3'2	3'0	2'6	2'4	2'4	1'9	1'5	1'8	1'9	1'7	1'9	1'8	10
3'6	3'1	3'0	3'0	2'4	2'5	1'5	1'6	1'9	1'3	1'5	1'6	11
7'4	3'2	2'7	2'3	2'7	2'0	1'4	1'5	1'7	1'7	2'0	1'9	12
3'4	3'0	2'7	2'5	2'4	2'0	1'5	1'5	1'8	1'7	1'5	1'4	13
3'0	3'4	2'7	2'3	2'2	1'7	1'5	1'9	1'8	1'6	C	1'9	14
2'8	2'8	2'6	2'2	2'2	2'0	1'1	1'7	1'7	1'8	2'0	1'8	15
3'0	3'0	2'6	2'3	2'2	1'9	1'4	1'6	1'5	1'5	1'4	1'4	16
3'0	3'0	2'6	2'4	2'4	2'2	1'4	1'5	1'5	1'1	1'6	1'6	17
3'0	3'0	3'6	3'0	2'3	2'4	1'4	1'5	1'7	1'8	1'6	1'9	18
3'0	2'6	2'4	2'2	2'4	2'0	1'3	1'6	1'5	1'6	8'5	2'0	19
3'0	3'0	2'8	2'8	4'4	3'0	1'5	1'5	1'7	1'8	1'8	1'8	20
3'0	3'0	2'7	2'4	2'2	2'1	1'4	1'4	1'5	1'7	1'6	1'7	21
4'8	3'4	3'2	2'7	2'5	2'2	1'5	1'5	1'9	1'9	2'0	1'8	22
6'2	4'8	3'4	2'6	2'6	2'2	1'4	1'3	1'5	1'3	2'0	1'6	23
3'1	3'0	2'8	2'7	2'3	2'0	1'3	1'7	1'7	1'4	1'7	1'6	24
2'8	3'4	2'8	2'5	2'2	2'0	1'4	1'7	1'7	1'8	1'8	1'8	25
3'0	2'8	2'6	2'4	2'3	1'9	1'3	1'8	2'0	1'9	1'6	1'6	26
2'9	2'9	2'5	C	C	1'7	1'5	1'5	1'3	1'7	1'5	1'6	27
2'7	2'6	2'6	2'3	2'1	1'7	1'4	1'6	1'9	1'8	1'9	1'8	28
2'7	3'0	2'6	2'3	2'2	1'8	1'4	1'5	1'2	1'4	1'8	1'9	29
2'8	2'7	2'7	2'8	2'5	1'7	1'5	1'7	1'8	1'6	1'6	1'8	30
2'8	2'8	2'6	2'4	2'2	1'8	1'5	1'9	2'0	2'0	1'8	1'8	31
3'4	3'1	2'8	2'6	2'5	2'1	1'5	1'6	1'7	1'7	1'8	1'8	Mean
3'0	3'0	2'7	2'6	2'4	2'0	1'5	1'6	1'8	1'7	1'8	1'8	Median
31	31	31	30	30	31	31	31	31	31	30	31	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : f min.

TABLE 61 (Continued)

Latitude : 10.2° N

Unit : Mc.

Ionospheric Data

Longitude : 77.5° E

Month : December 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	2.0	1.6	1.6	1.7	1.9	1.8	1.7	2.3	2.6	2.8	2.9	3.6
2	1.6	2.0	1.6	1.5	1.6	1.6	2.0	2.5	3.2	3.3	3.7	3.4
3	1.6	1.3	1.4	1.4	1.7	1.7	2.0	2.2	2.6	2.9	3.0	3.0
4	1.9	2.2	1.6	1.7	1.5	1.6	2.5	2.4	3.0	2.9	3.4	3.1
5	2.1	1.8	1.7	1.8	1.6	1.8	2.7	2.1	2.7	2.6	3.2	3.4
6	2.0	1.4	1.6	1.4	1.4	1.6	2.1	2.5	3.1	3.5	4.0	3.1
7	1.4	1.8	1.7	1.8	2.0	1.7	2.0	2.2	2.5	2.8	3.1	3.4
8	1.6	1.4	1.5	1.4	1.6	1.7	2.0	2.2	2.5	2.7	3.0	3.2
9	1.5	1.8	1.6	1.8	1.8	1.7	2.1	2.1	2.8	3.0	3.2	3.3
10	1.6	1.6	1.6	1.6	1.6	1.7	2.0	2.6	2.5	3.0	3.0	3.0
11	1.7	1.6	1.5	1.5	1.6	1.6	2.0	2.2	2.4	3.0	3.0	3.2
12	1.9	1.9	1.6	1.7	1.4	1.6	1.9	4.8	3.0	3.0	4.6	3.1
13	1.6	2.1	1.7	1.6	1.6	1.7	2.1	2.6	3.0	2.8	3.0	3.4
14	1.6	1.5	1.3	1.5	1.5	1.2	1.9	2.2	2.8	2.8	3.4	3.0
15	1.4	1.5	1.6	1.6	1.7	1.7	1.7	2.0	2.3	2.6	2.9	4.2
16	1.7	1.5	1.6	1.5	1.4	1.5	2.0	2.4	2.6	3.2	3.0	3.0
17	1.4	1.6	1.4	1.4	1.5	1.6	1.9	2.2	2.4	2.4	2.6	2.8
18	1.5	1.5	1.3	1.2	1.5	1.7	1.8	2.1	2.3	2.7	3.0	3.0
19	2.0	1.5	1.7	1.4	1.5	1.8	2.3	2.2	2.4	2.8	2.8	3.1
20	1.5	1.5	1.4	1.5	1.4	1.5	1.7	1.7	2.2	2.4	2.8	2.8
21	1.7	1.4	1.3	1.6	1.4	1.7	1.9	2.0	2.2	2.5	2.9	5.0
22	1.4	1.6	1.5	1.7	1.6	1.4	1.8	2.2	2.6	3.4	3.2	4.8
23	1.5	1.5	1.5	1.6	2.0	1.9	1.9	2.2	2.6	2.6	3.0	6.4
24	1.3	1.5	1.4	1.3	1.4	1.6	2.4	2.2	2.4	2.7	2.8	3.0
25	1.4	1.5	1.4	1.4	1.3	1.6	1.8	2.0	2.3	2.4	3.0	2.9
26	1.7	1.9	2.0	1.9	1.6	1.7	1.9	2.0	2.5	2.6	3.0	3.4
27	1.4	1.3	1.4	1.6	1.6	1.9	1.9	2.1	2.3	2.5	2.6	2.7
28	1.4	1.7	1.6	1.9	1.7	1.7	1.9	1.9	2.3	2.7	2.7	2.9
29	2.0	1.4	1.5	1.7	1.5	1.7	1.7	2.0	2.5	2.6	2.6	3.0
30	1.6	1.7	1.5	1.9	1.6	1.7	1.8	2.0	2.4	2.6	2.8	2.8
31	1.3	1.8	1.4	1.5	1.7	1.8	1.9	2.1	2.4	2.6	3.0	2.9
Mean	1.6	1.6	1.5	1.6	1.6	1.7	2.0	2.3	2.6	2.8	3.1	3.4
Median	1.6	1.6	1.5	1.6	1.6	1.7	1.9	2.2	2.5	2.7	3.0	3.1
Count	31	31	31	31	31	31	31	31	31	31	31	31

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : f min.

Unit : Mc.

Month : December 1958

TABLE 61 (Continued)

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
3.3	3.0	2.6	2.5	2.0	1.9	1.6	1.9	1.8	2.0	1.7	1.7	1
3.3	3.1	5.0	2.7	2.4	1.8	1.8	1.9	1.7	2.0	2.2	1.8	2
5.0	3.1	2.6	2.5	1.9	1.8	1.3	1.5	1.7	1.5	2.0	1.5	3
3.8	3.0	3.0	2.8	2.5	2.2	1.7	1.8	2.1	2.0	2.2	1.4	4
3.3	3.1	3.3	2.6	2.2	1.9	1.5	1.8	1.9	1.7	1.8	1.8	5
3.4	3.0	2.8	2.8	2.3	2.0	1.4	1.7	1.8	1.7	1.7	1.5	6
3.9	3.0	2.7	2.3	2.4	2.0	2.4	2.0	1.8	1.8	1.6	1.6	7
3.1	3.0	2.9	2.6	2.3	1.8	1.3	1.8	1.9	1.7	2.0	1.8	8
3.2	3.0	2.6	2.3	2.0	1.9	2.0	1.9	1.8	1.6	1.8	1.8	9
3.0	2.8	2.6	2.4	2.3	1.8	1.9	2.0	1.8	1.9	1.9	1.8	10
3.6	3.2	2.8	2.7	3.3	1.8	1.6	1.8	1.8	1.6	1.5	2.2	11
5.0	2.8	2.5	2.5	2.1	1.8	1.4	1.3	1.7	1.7	1.9	2.0	12
3.2	2.8	2.6	2.4	2.0	1.8	1.5	1.7	1.7	1.4	1.5	2.0	13
3.0	3.2	2.6	2.2	1.9	1.9	1.5	2.0	1.8	1.4	2.0	1.9	14
2.8	2.6	2.4	2.3	2.2	1.9	1.3	1.5	1.7	1.5	1.7	1.9	15
3.0	2.8	2.6	2.3	2.0	1.8	1.6	1.5	1.4	1.4	1.6	1.9	16
3.0	3.0	2.5	2.5	2.0	2.0	1.4	1.6	1.6	1.5	1.4	1.6	17
2.8	2.8	3.8	2.6	2.2	1.9	1.2	1.6	1.9	1.8	1.7	1.8	18
2.7	2.7	2.4	2.4	2.2	1.9	1.9	1.8	1.7	1.9	2.4	1.9	19
3.2	2.8	2.5	2.6	4.0	2.0	1.6	1.6	1.9	1.6	1.7	1.6	20
3.0	2.9	2.7	2.4	2.3	1.9	1.3	1.4	1.5	1.4	1.6	1.5	21
4.6	3.5	3.0	2.6	2.4	1.9	1.4	1.7	1.8	1.4	1.8	1.7	22
5.0	4.4	3.0	2.7	2.4	2.0	1.7	1.6	1.5	1.5	1.4	1.5	23
3.1	2.9	2.6	2.6	2.0	1.8	1.3	1.8	1.9	1.2	1.7	1.5	24
2.6	2.8	2.6	2.4	2.0	1.7	1.2	1.7	1.7	1.7	1.8	2.1	25
3.0	2.9	2.6	2.4	2.0	2.0	1.3	1.8	1.7	1.8	1.7	1.6	26
2.8	2.7	2.4	2.4	2.0	1.9	1.4	1.6	1.7	1.9	1.6	1.7	27
2.8	2.6	2.4	2.3	1.9	1.9	1.5	2.0	1.7	2.2	1.6	1.8	28
2.8	2.6	2.5	2.3	1.9	2.0	1.2	1.9	1.6	1.4	1.9	1.8	29
2.8	3.0	2.7	2.5	2.0	1.8	1.4	1.6	1.4	1.8	1.6	1.7	30
2.8	2.6	2.4	2.5	2.1	1.9	1.6	2.0	2.0	1.8	2.0	2.2	31
3.3	3.0	2.8	2.5	2.2	1.9	1.5	1.7	1.7	1.7	1.8	1.8	Mean
3.1	2.9	2.6	2.5	2.2	1.9	1.5	1.8	1.7	1.7	1.7	1.8	Median
31	31	31	30	30	31	31	31	31	31	31	31	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

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Characteristic : h'F2

Unit : Km

Month : December 1958

TABLE 62

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5								L	LH	LH	LH	LH
6								L	L	L	L	L
7								L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	LH
11								L	L	L	L	L
12								L	L	L	L	L
13								L	L	L	L	L
14								L	L	L	L	L
15								L	L	L	L	L
16								L	L	L	L	L
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21								L	L	L	L	L
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26								L	L	L	L	L
27								L	L	L	L	L
28								L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31								L	L	L	L	L
Mean							
Median							
Count							

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F2

Unit : Km.

Month : December 1958

TABLE 62

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
L	L	L	L	L								1
L	L	L	L	L								2
L	L	L	L	L								3
L	LH	L	L	L								4
L	LH	L	L	L								5
LH	LH	LH	L	L								6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
L	L	L	L	L								10
L	L	L	L	L	L							11
B	L	L	L	L	L							12
L	L	L	L	L	L							13
L	L	L	L	L	L							14
L	L	L	L	L	L							15
L	L	L	L	L	L							16
L	L	L	L	L	L							17
L	L	L	L	L	LH							18
L	L	L	L	L	L							19
L	L	L	L	L	L							20
L	L	L	L	L	L							21
L	L	L	L	L	L							22
L	L	L	L	L	L							23
L	L	L	L	L	L							24
L	L	L	L	L	L							25
L	L	L	L	L	L							26
L	L	L	L	L	L							27
L	L	L	L	L	L							28
L	L	L	L	L	L							29
L	L	L	L	L	L							30
L	L	L	L	L	L							31
..	..	..	..	..	..							Mean
..	..	..	..	..	..							Median
..	1	..	..	..	..							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F2

TABLE 62 (Continued)

Latitude : 10.2° N

Unit : Km.

Ionospheric Data

Longitude : 77.5° E

Month : December 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1								L	L	L	L	L
2								L	L	L	L	L
3								L	L	L	L	L
4								L	L	L	L	L
5							L	LH	LH	LH	LH	L
6												
7							L	L	L	L	L	L
8								L	L	L	L	L
9								L	L	L	L	L
10								L	L	L	L	L
11												
12								L	L	L	L	L
13								B	L	L	L	L
14								L	L	L	L	L
15							L	L	L	L	L	L
16												
17								L	L	L	L	L
18								L	L	L	L	L
19								L	L	L	L	L
20								L	L	L	L	L
21												
22								L	L	L	L	L
23								L	L	L	L	L
24								L	L	L	L	L
25								L	L	L	L	L
26							L	L	L	L	L	L
27								L	L	L	L	L
28							L	L	L	L	L	L
29								L	L	L	L	L
30								L	L	L	L	L
31							L	L	L	L	L	L
Mean						
Median						
Count						

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F2

TABLE 62 (Continued)

Latitude : 10.2° N

Unit : Km.

Ionospheric Data

Longitude : 77.5° E

Month : December 1958

75.0° E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
L	L	L	L									1
L	L	L	L									2
L	L	L	L									3
L	LH	L	L	L								4
L	LH	L	L									5
LH	LH	LH	L									6
L	L	L	L	L								7
L	L	L	L	L								8
L	L	L	L	L								9
												10
L	L	L	L	L								11
L	L	L	L	L								12
L	L	L	L	L								13
L	L	L	L	L								14
												15
L	L	L	L	L								16
L	L	L	L	L								17
L	L	L	L	L								18
L	L	L	L	LH								19
												20
L	L	L	L	L								21
L	L	L	L	L								22
L	L	L	L	L								23
L	L	L	L	L								24
												25
L	L	L	L	L								26
L	L	L	L	L								27
L	L	L	L	L								28
L	L	L	L	L								29
L	L	L	L	L								30
												31
..	..	..	..	..								Mean
..	..	..	..	..								Median
..	..	..	..	..								Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic: h'F

(TABLE 63)

Latitude : 10° 2' N

Unit : Km.

Ionospheric Data

Longitude : 77° 5' E

Month : December 1958

75° 0' E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	U360F	270F	240	225	220	230	290	255	240	230	230	225
2	U305F	270	270F	245	235	220	270	255	240	230	220	215
3	275	295	275	245	235	255	300	255	240	230	230	215
4	250	245	235	220	220	220	265	245	230	220	220	225
5	260	U280F	300	280	285	290F	315	270	255	240	235	225
6	305	280	275F	U245F	235F	240	300	255	235	230	220	220
7	260	280	280	240	225	230	300	260	245	240	220	220
8	250	245	235	220	240	230	280	250	240	235	220	225
9	260	255	240	260	245	245	260	255	240	230	220	220
10	U385F	260	240	240	220	215	280	260	240	230	220	220
11	350	300	260	240	220	225	300	255	235	220	220	220
12	U300F	280	245	230	225	240	290	260	240	230	220	220
13	355	310	300	250	240	225	260	260	240	230	230	225
14	285	280	260	300	380	U430F	320	260	240	230	U240B	220
15	340	300	280	260	240	220	270	260	240	220	220	210
16	280	290F	245	230	220	230	265	255	240	230	220	210
17	270	275	260	260	240	220	250	250	235	230	220	220
18	230	290	310F	305	310	205	240	260	240	240	230	230
19	360	320	340	260	240	230	240	250	235	220	210H	220
20	260	250	260	240	240	220	250	250	240	220	220	220
21	260	240	245	240	240	225	260	250	240	230	220	220
22	240	250	260	245	230	220	240	240	235	220	220	B
23	305F	280	270	260	260	235	240	245	240	220	215	B
24	240	240	280	260	235	210	260	250	235	220	220	220
25	260	250	220	220	220	220	280	260	240	230	220	220
26	275	275	245	260	240	220	245	250	240	225	220	215
27	235	260	260	240	230	260	280	255	240	225	210H	215
28	240	250	245	240	225	220	270	255	240	230H	220	200
29	240	250	245	265	225	220	260	250	235	235	220	215
30	240	240	275	270	250	225	250	255	240	225	220	210
31	255	270	300	300	230	215	245	250	235	220	205H	210
Mean	280	270	265	250	245	235	270	255	240	230	220	220
Median	260	270	260	245	235	225	265	255	240	230	220	220
Count	31	31	31	31	31	31	31	31	31	31	31	29

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km.

Month : December 1958

TABLE 63

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
225	220	225	230	245	280	370	U485F	F	F	U375F	U320F	1
220	225	230	240	255	280F	360	U420F	U360F	U310F	265	260	2
210	225	230	245	255	280	350	445	U465F	U375F	320	280	3
215	225	220	240	U270A	300	U390F	F	U380F	U305F	U315F	U310F	4
230	230	235	235	255	300	395	U510F	U520F	U425F	U490F	F	5
215	225	225	235	250	275	350	U430F	U405F	U350F	U305F	U280F	6
220	220	230	240	255	280	360	475	U480F	U400F	F	280	7
220	220	220	240	240	280	350	U400F	U405F	U430F	U270F	290	8
220	220	220	235	250	285	360	460F	F	F	355	340	9
215	225	230	240	250	280	360	U500F	F	F	F	F	10
220	215	210H	230	A	280	355	420	400F	360	295	335	11
B	210	220	230	255	280	340	380	405F	400	350F	360	12
220	215	230	240	255	280	340	480F	420F	330	320	320	13
220	230	235	245	250	280	360	U410F	400F	420	C	420F	14
220	220	225	240	255	280	330	390	420F	380F	300	270	15
220	220	220	235	250	280	330	360	320	320	320	315	16
220	220	220	235	250	270	330	420	440F	350	265	260	17
A	A	220	240	250	275	330	400	U460F	445F	420F	F	18
220	215	220	235	250	280	330	400	370	340	310	270	19
			235	B	300	340	420	460	360	300	260	20
220	215	210	230	250	265	320	340	320	295	260	240	21
B	220	235	240	250	270	325	440	U400F	U380F	400F	U320F	22
B	B	220	240	245	270	335	410	405	340	260	240	23
220	220	210	230	240	260	320	420	420	360	320H	260H	24
210	220	210	220	240	270	320	400	450	420F	400	320F	25
205H	205	210H	220H	245	280	330	410	U390F	260	225	240	26
210	200H	225H	C	C	270	320	360	320	260	240	230	27
220	210	220	230	245	270	325	425	U370F	305F	280	235	28
200H	225	205H	230	240	270	320	400	F	315	300	255	29
205	205	220	225	250	270	320	370	F	280	270	250	30
210	205	225	225	250	270	320	F	F	U440F	F	330F	31
215	220	220	235	250	280	340	420	405	355	315	290	Mean
220	220	220	235	250	280	335	420	405	355	305	280	Median
27	29	31	30	28	31	31	29	25	28	27	28	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F

TABLE 63 (Continued)

Latitude : 10° 2' N

Unit : Km.

Ionospheric Data

Longitude : 77° 5' E

Month : December 1958

75° 0' E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	U320F	250	240	225	225	240	270	240	235	225	225	225
2	290	265	240F	240	220	230	265	245	235	225	220	210
3	290	270	280	275	260	240	270	245	230	225	215H	220
4	245	250	230	220	220	230	260	235	225	225	225	A
5	270	290	270	275	300	280F	305	265	240	240	240	230
6	300	275	260F	U235F	235	260	270	250	230	230	225	220
7	265	285	260	220	235	260	265	250	240	225	220	220
8	250	240	220	225	235	240	290	250	235	230	220	225
9	245	230	250	275	240	240	260	245	240	225	220	220
10	320	250	235	230	220	230	270	250	235	225	220	220
11	F	280	240	220	225	240	270	245	230	230	220	220
12	295	260	240	225	235	245	270	B	235	230	225	215
13	330	300	260	250	230	210	260	240	230	220	230	220
14	275	270	270	340	420F	F	280	250	240	230	225	225
15	310	280	270	255	220	230	270	250	230	230	220	U230B
16	280	265	240	225	230	230	275	250	230	225	215	215
17	270	270	260	260	220	220	260	240	230	220	220	220
18	250	300F	310	320	260	210	260	250	240	235	230	230
19	360	340	300	240	240	230	240	240	230	220	220	235
20	260	260	240	240	220	215	260	240	230	220	220	220
21	260	240	240	240	225	220	270	240	230	230	220	B
22	240	260	260	240	220	210	250	240	230	220	220	B
23	290	260	260	260	240	220	260	240	230	220	215	B
24	240	260	270	240	220	205	260	240	220	220	220	220
25	255	240	220	220	220	230	270	240	230	220	220	215
26	280	260	260	255	230	220	260	245	230	225	220	210
27	240	275	245	220	240	265	265	245	230	220	220	220
28	240	250	230	230	210	225	260	240	225	210	210H	200H
29	250	240	260	250	220	225	260	240	235	225	220	220
30	235	255	270	265	240	225	270	245	235	220	215	210
31	255	285	305	260	225	220	260	240	230	220	205	205
Mean	275	265	255	250	240	230	265	245	230	225	220	220
Median	270	260	260	240	230	230	265	245	230	225	220	220
Count	30	31	31	31	31	30	31	30	31	31	31	27

Sweep, 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'F

Unit : Km.

Month : December 1958

TABLE 63 (Continued)

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
225	215	225	240	260	310	440	F	F	U340F	U335F	320F	1
220	225	B	240	265	305	400	U380F	U365F	275	260	260	2
B	225	225	240	265	300	405	U450F	U415F	345	305F	260	3
220	225	225	A	A	325	U440F	U400F	U360F	U320F	U305F	U320F	4
230	235	240	245	270	325	U460F	F	U450F	U420F	F	U305F	5
215	220	230	240	260	300	400F	U400F	U390F	U315F	U290F	270	6
225	225	235	240	270	300	450	U485F	U480F	400F	F	260	7
220	220	235	240H	270	305	380	F	F	F	295	290	8
220	220	225	245	260	310	420	F	F	350	360	F	9
220	220	235	240	260	310	415	F	F	F	F	390	10
225	210	220H	245	280	300	400	400F	380F	340	310	320	11
B	215	225	240	270	295	375	395	410	385	330F	350	12
220	220	230	240	260	290	420	U460F	370F	300	320	300	13
220	230	235	240	260	305	400	400F	400	420	420F	360	14
215	220	230	240	260	300	360	420	400F	360F	260	280	15
220	220	225	240	260	300	360	340	310	320	320	300	16
220	220	220	240	250	290	380	450F	400F	300	265	290	17
220	220	220	245	260	300	370	420	U480F	U450F	310F	360	18
A	220	230	240	260	300	380	380	340	320	295	260	19
220	215	220	240	B	300	400	420	420	320	260	260	20
210	210	220	245	260	300	340	340	310	260	250	240	21
U230B	220	230	240	260	290	390	U440F	U360F	U360F	400	330F	22
B	U230B	230	240	260	300	380	420	360	280	240	240	23
220	220	220	235	255	280	380	420	400	340H	280H	260	24
210	210	220	240	260	290	360	460F	U460F	400	U380F	310	25
200H	205H	220	240	260	300	390	430	300	240	230	240	26
200H	200	U250A	C	C	290	345	340	300	265	230	240	27
205	210	220	240	265	300	385	U440F	340	305	235	235	28
210H	215H	225	230	250	295	360	F	340	315H	U265F	250	29
200	200H	225	235	260	290	360	F	315	280	260	255	30
210	220	230	230	260	295	400	F	F	360	355F	300	31
215	220	225	240	260	300	390	415	380	335	300	285	Mean
220	220	225	240	260	300	390	420	375	320	295	275	Median
27	31	30	29	28	31	31	23	26	29	28	30	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

300

Characteristic : h'E

TABLE 64

Latitude : 10° 2' N

Unit : Km.

Ionospheric Data

Longitude : 77° 5' E

Month : December 1958

75° 0' E Mean Time

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								A	A	A	A	A
2								120	A	115	A	A
3								120	110	A	A	A
4								115H	110	100	A	A
5								A	A	A	A	A
6								120	120	120	A	120
7								115	105	100	100	A
8								120H	110	A	A	A
9								120	115	A	A	A
10								120	115	A	A	A
11								A	A	A	A	A
12								120H	110	A	A	A
13								120	120	120	A	120
14								A	110	A	B	110
15								115	110	A	110	A
16								120	110	115	110	A
17								120	110	110	A	110
18								110	110	B	110	110
19								110	100	110	A	A
20								110	A	A	A	A
21								120	105	A	A	A
22								120	110	A	A	B
23								115	105	A	A	B
24								120	110	110	A	A
25								120	110	105	A	A
26								120	115	A	A	A
27								120	110	105	A	A
28								110	110	A	A	A
29								115	110	110	A	A
30								110	105	A	A	A
31								120	110	A	A	A
Mean								115	110	110	..	115
Median								120	110	110	..	110
Count								27	26	12	4	5

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'E

Unit : Km.

Month : December 1958

TABLE 64

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

12	13	14	15	16	17	18	19	20	21	22	23	Date
A	A	110	105	A	..							1
A	A	A	110	A	..							2
A	A	A	A	A	..							3
A	A	A	115	A	130							4
100	110	A	A	110								5
A	115	A	105	A								6
A	A	A	A	B	130							7
A	A	A	A	A	..							8
A	A	A	A	A	A							9
A	A	A	A	A	A							10
A	A	A	A	A	A							11
B	A	A	A	A	A							12
115	110	110	110	115	120							13
115	120	110	110	110	110							14
A	A	A	A	115	..							15
110	A	A	110	110	..							16
A	110	110	110	120	..							17
110	A	B	120	120	..							18
A	A	A	A	115	120							19
A	A	A	A	B	..							20
A	A	A	A	110	120							21
B	A	110	110	110	A							22
B	B	A	110	120	130							23
A	110	110	120	120	130							24
A	B	A	A	110	UI20F							25
A	A	A	A	A	A							26
A	A	A	C	C	..							27
A	A	A	A	A	120							28
A	A	A	A	110	110							29
A	A	A	120	A	A							30
A	A	105	105	110	120							31
110	110	110	110	115	125							Mean
110	110	110	110	110	120							Median
5	6	7	13	15	11							Count

Sweep 1 Mo. to 25 Mo. in 27 seconds.

Characteristic: h'E

TABLE 64 (Continued)

Latitude : 10° 2' N

Unit : Km.

Ionospheric Data

Longitude : 77° 5' E

Month : December 1958

75° 0' E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							A	A	A	A	A	A
2							125	115	115	110	A	A
3							125	110	105	A	A	A
4							..	115	120	A	120	A
5							..	A	A	A	A	A
6							135	120	120	120	120	A
7							120	110	100	100	A	A
8							125	115	A	A	A	A
9							125	115	115	A	A	A
10							125	120	A	A	A	A
11							130H	A	A	A	A	A
12							120	B	A	A	B	A
13							..	120	120	A	120	120
14							125	110	115	110	A	115
15							120	110	110	110	A	B
16							125	120	110	115	110	110
17							120	115	110	110	A	A
18							130	110	110	110	110	A
19							..	105	100	105	A	A
20							120	A	A	A	A	A
21							125	110	A	A	A	B
22							120	120	110	B	A	B
23							130	110	A	A	A	B
24							..	115	110	A	A	A
25							130	110	110	A	A	A
26							140	110	110	110	A	A
27							145	115	110	A	A	A
28							140	110	A	A	A	A
29							125	110	110	A	A	A
30							130	110	A	A	A	A
31							120	115	A	A	A	A
Mean							125	115	110	110	115	..
Median							125	110	110	110	120	..
Count							25	26	19	9	5	3

Sweep: 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'E

TABLE 64 (Continued)

Latitude : 10° 2' N

Unit : Km.

Ionospheric Data

Longitude : 77° 5' E

Month : December 1958

75.0° E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
A	A	A	105	A								1
A	A	B	110	120								2
B	A	A	110	A								3
B	110	A	115	A								4
110	110	A	110	A								5
105	110	A	A	A								6
B	A	A	A	A								7
A	A	A	A	A								8
A	A	A	A	A								9
A	A	A	A	A								10
A	A	A	A	A								11
B	A	A	A	A								12
115	110	A	110	120								13
110	110	A	A	110								14
A	A	A	A	F								15
A	110	110	110	120								16
A	115	110	120	115								17
110	110	B	115	120								18
A	A	A	110	120								19
A	A	A	110	B								20
A	A	A	110	120								21
A	A	A	110	120								22
A	110	110	115	120								23
B	B	A	110	120								24
A	110	110	120	120								25
A	A	A	A	120	140							26
A	A	A	110	A								27
A	A	A	C	C								28
A	A	A	A	110								29
A	A	A	A	110								30
A	A	A	115	A								31
A	A	105	120	120								31
110	110	110	110	120								Mean
110	110	110	110	120								Median
5	10	5	18	15	I							Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km.

Month : December 1958

TABLE 65

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1								105	100	100	100	100
2	115							G	100	100	100	100
3						100		G	100	100	100	100
4								G	G	100	100	100
5	110	100			105			100	100	100	100	100
6								G	G	G	100	100
7								105	100	100	100	100
8								G	100	100	100	100
9							100	G	100	100	100	100
10								G	100	100	100	100
11								100	100	100	100	100
12								G	100	100	100	100
13								G	G	G	100	100
14						105		110	100	100	G	100
15			120					100	100	100	100	100
16								110	100	100	100	100
17								G	100	100	100	100
18								G	G	G	100	100
19								G	110	G	100	100
20								120	100	100	100	100
21								100	100	100	100	100
22								G	G	100	100	100
23					105			G	100	100	100	B
24								G	100	100	100	100
25								105	100	100	100	100
26								G	G	100	100	100
27		110						G	100	100	100	100
28								G	100	100	100	100
29								G	100	100	100	100
30								G	100	100	100	100
31								G	100	100	100	100
Mean	..	..	..	..	..	..	..	105	100	100	100	100
Median	..	..	..	..	..	..	..	105	100	100	100	100
Count	2	2	1	..	2	2	1	10	25	27	30	30

*Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km.

Month : December 1958

TABLE 65

Ionospheric Data

75°0° E Mean Time

Latitude : 10°2° N

Longitude : 77°5° E

12	13	14	15	16	17	18	19	20	21	22	23	Date
100	100	100	100	100	..							1
100	100	100	100	105	..							2
100	100	100	100	100	..							3
100	100	100	125	125	G			115			105	4
100	100	100	100	100								5
100	120	100	100	100	..							6
100	100	100	100	100	G							7
100	100	100	100	100	125							8
100	100	100	100	100	100							9
100	100	100	100	100	110							10
100	100	100	100	100	..							11
B	100	100	100	100	100							12
100	100	100	100	100	G							13
100	100	100	100	100	120							14
100	100	100	100	100	130							15
100	100	100	100	100	110							16
100	100	100	100	100	110				110			17
100	100	100	100	100	..							18
100	100	100	100	100	110							19
100	100	100	100	100	105							20
100	100	100	100	100	105							21
100	100	100	100	100	105							22
B	100	100	100	100	105				120			23
100	100	100	100	G	G							24
100	100	100	100	100	110							25
100	105	100	100	100	105							26
100	100	100	C	C	120	110						27
100	100	100	100	100	110							28
100	100	100	100	105	105			115				29
100	100	100	100	100	100			130				30
100	100	100	100	G	110							31
100	100	100	100	100	110	..	..	..	..	..	..	Mean
100	100	100	100	100	110	..	..	..	..	..	..	Median
29	31	31	30	28	20	1	..	3	2	..	1	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'Es

TABLE 65— (Continued.)

Latitude : 10° 2' N

Unit : Km.

Ionospheric Data

Longitude : 77° 5' E

Month : December 1958

75° 0' E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1							105	100	100	100	100	100
2	110						G	100	100	100	100	100
3							G	G	100	100	100	100
4							..	120	100	100	100	100
5	100	100			110		..	100	100	100	100	100
6							G	G	G	G	G	100
7							G	100	100	100	100	100
8							G	100	100	100	100	100
9							135	G	100	100	100	100
10			100				G	G	100	100	100	100
11							G	100	100	100	100	100
12							G	B	100	100	100	100
13							..	G	G	100	100	100
14						105	G	100	100	100	100	100
15							G	100	100	100	100	100
16							G	100	100	100	100	100
17							G	G	100	100	100	100
18							G	G	100	100	100	100
19							..	110	100	100	100	100
20							G	105	100	100	100	100
21							G	100	100	100	100	100
22							G	G	100	100	100	100
23					120		G	100	100	100	100	B
24							..	G	100	100	100	100
25							G	100	100	100	100	100
26							G	G	G	100	100	100
27		120					G	G	100	100	100	100
28							G	105	100	100	100	100
29							G	G	100	100	100	100
30							G	100	100	100	100	100
31							G	G	100	100	100	100
Mean	..	..	..	..	..	..	..	100	100	100	100	100
Median	..	..	..	..	..	..	..	100	100	100	100	100
Count	2	2	1	1	1	1	2	17	28	30	30	30

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : h'Es

Unit : Km.

Month : December 1958

TABLE 65 —Contd.

Ionospheric Data

75°0' E Mean Time

Latitude : 10°2' N

Longitude : 77°5' E

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
100	100	100	100	105							115	1
100	100	B	100	105								2
100	100	100	100	105								3
100	100	100	120	125						110	100	4
100	100	100	100	105								5
100	100	100	100	105								6
100	100	100	100	100								7
100	100	100	100	110								8
100	100	100	100	100								9
100	100	100	100	100								10
100	100	100	100	120						115		11
100	100	100	100	100								12
100	100	100	100	105								13
100	100	100	100	100								14
100	100	100	100	100								15
100	100	100	100	100								16
100	100	100	105	105								17
100	100	G	100	100								18
100	100	100	100	100								19
100	100	100	100	100								20
100	100	100	100	100								21
100	100	100	100	100					115			22
100	100	100	100	105					115			23
100	100	100	100	G					120			24
100	100	100	100	105	G							25
100	100	100	100	100								26
100	100	100	C	C	115							27
100	100	100	100	105								28
100	100	100	100	105								29
100	100	100	G	100	155		115	120				30
100	100	100	G	105								31
100	100	100	100	105	..	..	..	..	..	..	..	Mean
100	100	100	100	105	..	..	..	..	..	..	..	Median
31	31	29	28	29	2	..	1	1	3	2	2	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : (M3000)F2

Unit : ...

Month : December 1958

TABLE 66

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

Date	00	01	02	03	04	05	06	07	08	09	10	11
1	F	2.45 ^F	2.70	U2.95 ^F	3.05	3.15	2.75	2.60	2.45	2.20	2.10	2.05
2	F	F	2.65 ^F	2.75	3.00	3.05	2.85	2.80	2.55	2.35	2.15	2.10
3	2.60	2.60	2.65	2.80	2.50	U2.45 ^S	2.55	2.45	2.50	2.25	2.05	2.05
4	2.55	2.65	2.75	2.95	3.25	3.20	U2.90 ^S	2.95	2.80	2.55	2.45	2.40
5	U2.55 ^S	2.60	2.70	2.70	2.75	U2.80 ^S	2.50	2.20	2.10	1.90	W	U1.85 ^W
6	U2.40 ^F	U2.40 ^F	U2.55 ^F	F	2.95	3.15	U2.70 ^S	2.75	2.50	2.50	2.45	2.40
7	U2.25 ^F	F	2.60	2.90	3.15	3.10	2.70	U2.70 ^S	2.50	2.35	2.25	2.20
8	U2.60 ^F	2.80	U2.80 ^F	2.80	F	3.05	U2.95 ^S	2.90	2.70	2.45	2.20	2.15
9	U2.70 ^S	F	U2.85 ^F	2.80	2.85	2.95	2.90	2.85	2.70	2.55	2.30	2.15
10	F	F	2.75	2.75	3.00	3.15	2.90	2.80	2.65	2.50	2.35	2.20
11	F	F	F	F	3.15	3.20	2.80	2.90	2.60	2.40	2.25	2.20
12	F	F	F	U3.00 ^S	3.10	3.10	2.90	2.70	2.65	2.55	2.35	2.25
13	F	F	F	F	F	3.20	2.95	2.90	2.80	2.80	2.50	2.30
14	2.50	2.65	2.80	U2.65 ^S	2.40	U2.20 ^S	2.45	U2.70 ^S	2.50	2.40	U2.30 ^R	2.30
15	F	U2.45 ^F	2.70	U2.80 ^S	3.00	3.05	2.95	2.60	2.35 ^H	2.35	2.20	2.05
16	2.60	F	U2.80 ^S	3.00	3.10	3.25	U2.80 ^S	U2.80 ^S	U2.45 ^S	2.25	2.20	2.10
17	2.55	2.70	U2.75 ^S	2.70	2.90	U3.10 ^S	2.95	2.95	2.70	2.40	2.15 ^R	2.15
18	2.95	2.65	2.45 ^F	2.60	F	3.20	3.10	2.90	2.80	2.65	2.45	2.35
19	F	F	F	F	F	F	FS	3.00	2.85	U2.80 ^F	2.60	2.50
20	U2.45 ^R	J2.65 ^S	U2.75 ^S	2.75	U3.05 ^S	J3.20 ^R	3.10	3.05	2.80	2.50	U2.20 ^R	2.15
21	2.70	2.60 ^F	J2.90 ^S	2.90	2.95	3.15	U3.10 ^S	2.85	2.70	2.50	2.35	2.30
22	U2.80 ^S	U2.90 ^S	U2.90 ^S	3.05	3.15	3.40	3.00	3.10	3.00	J2.60 ^R	U2.20 ^R	2.20
23	F	F	F	F	U2.90 ^F	3.15	3.10	2.95	J2.70 ^R	J2.35 ^R	2.30	2.25
24	U2.60 ^S	U2.75 ^S	U2.70 ^S	U2.85 ^S	3.05	3.35	2.75	2.95	2.80	2.55	2.20	2.15
25	F	F	F	U3.00 ^F	3.25	3.30	2.75	2.80	2.60	2.40	2.25	2.20
26	F	F	U2.70 ^F	F	2.95 ^F	3.20	2.95	3.05	2.90	2.65	2.40	2.10
27	2.80	U2.75 ^S	2.75	2.95	3.00	2.80	2.85	2.90	2.80	2.45	2.15	2.05
28	U2.75 ^S	U2.60 ^S	2.60	2.80	3.10	3.45	2.70	2.90	2.60	2.30	2.10	2.10
29	2.70	2.80	F	2.70	3.00	3.15	2.70	2.95	2.75	2.45	2.10	2.10
30	U2.60 ^S	2.80	2.75	2.80	2.90	J3.05 ^S	2.90 ^S	2.75	2.50	2.20	2.15	2.10
31	2.70	U2.60 ^S	2.55	2.55	2.90	3.15	2.85	2.90	2.70	2.35	2.05	2.05
Mean	2.60	2.65	2.70	2.80	3.00	3.10	2.90	2.80	2.65	2.45	2.25	2.20
Median	2.60	2.65	2.70	2.80	3.00	3.15	2.90	2.90	2.70	2.45	2.20	2.15
Count	20	19	24	25	27	30	30	31	31	31	31	31

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : (M3000)F2

Unit :

Month : December 1958

TABLE 66

Ionospheric Data

75.0° E Mean Time

Latitude : 10.2° N

Longitude : 77.5° E

12	13	14	15	16	17	18	19	20	21	22	23	
2.05	2.00	2.00	2.00	2.05	2.05	2.00	U1.85W	F	F	2.10	U2.30F	1
2.10	2.05	2.00	2.00	1.90	2.00	U2.05S	F	U2.05F	2.25	U2.60S	2.65	2
2.00	2.00	2.00	2.00	2.00	2.00	U2.05S	2.05	2.00	2.10	2.25	2.40	3
2.35	2.30	2.25	2.20	2.25	2.25H	2.05H	U1.95F	F	F	F	F	4
1.90	2.00	2.00	2.00	1.95	2.00	2.00	1.90	F	F	F	U2.30F	5
2.30	2.35	2.30	2.15	2.05	2.05	2.00	U1.85F	F	F	U2.15F	F	6
2.15	2.20	2.10	2.05	1.95	2.05	2.05	1.95	F	F	F	U2.25F	7
2.10	2.05	2.05	2.00	2.00	2.10	U2.15S	U2.10S	F	F	F	F	8
2.10	2.00	2.10	2.10	2.00	2.00	1.90	1.90	F	F	2.05	F	9
2.05	2.05	2.05	2.05	2.00	2.00	2.00	1.80	F	F	F	F	10
2.15	2.10	2.05	2.00	2.10	2.15	2.10	2.00	2.05	2.15	F	U2.35S	11
2.25	2.10	2.00	1.95	2.00	2.10	2.10	2.05	2.05	2.10	U2.25S	F	12
2.20	2.15	2.15	U2.05R	U1.95R	U2.10S	2.10	F	F	2.20	2.25	U2.40S	13
2.20	2.20	2.15	2.20	2.20	U2.05S	21.90WH	FH	F	F	F	F	14
2.00	1.95	1.95	2.00	2.05	U2.05S	U2.10S	U2.10S	U2.00F	2.05F	2.35	2.55	15
2.05	2.10	2.10	2.10	2.10	R	2.05	2.05	2.15	2.10	2.20	F	16
2.15	2.15	2.10	2.15	2.15	U2.20S	2.10	2.05	F	U2.15F	U2.60R	2.50F	17
2.25R	2.25R	2.25	2.25	2.20	2.20	2.10	U1.95S	U2.05S	F	F	F	18
J2.50R	2.50	J2.40R	2.25	2.20	U2.10RH	U2.10S	U1.90W	U2.05S	2.10	U2.40S	J2.35R	19
2.15	2.10	2.10	2.05	2.10	U2.20S	U2.25S	J2.10R	J2.10F	J2.20R	U2.40F	J2.70S	20
2.30	2.20	2.25	2.15	U2.15S	2.10	U2.25S	2.20	J2.20R	2.45	U2.55S	U2.65S	21
2.30	2.25	2.30	2.25	2.25	U2.20S	U2.10S	1.95	F	F	F	F	22
2.15	2.15	2.10	2.15	2.30	J2.25R	U2.10S	J2.05R	U2.00F	2.15F	U2.50S	U2.60S	23
2.20	2.20	2.20	2.25	2.35	2.40	U2.40R	J2.15R	2.10F	2.25F	J2.35RH	F	24
2.15	2.10	2.10	2.10	2.10	U2.20S	2.30	2.10	U2.00FS	J2.05FS	J2.10S	U2.30F	25
2.00	2.00	2.05	2.10	2.10	2.05	U2.10S	2.05	U2.00F	U2.55S	2.70	U2.80S	26
2.05	2.00	1.95	C	C	2.10	2.20	2.15	2.30	2.50	2.65	J2.70R	27
2.10	2.00	2.00	2.00	2.05	U2.10S	2.10	1.95	U2.00F	U2.05F	F	U2.65S	28
2.05	2.00	2.00	2.05	2.10	2.10	U2.10S	2.00	FS	2.30	F	J2.50S	29
2.15	2.10R	2.10	2.15	2.20	2.25	2.15	2.10	2.15	2.35	2.45	2.60	30
2.10	2.15	2.15	2.20	2.30	2.30	2.25	2.00	J2.00F	J2.15F	U2.40F	F	31
2.15	2.10	2.10	2.10	2.10	2.10	2.10	2.00	U2.05	2.20	U2.35	U2.50	Mean
2.15	2.10	2.10	2.10	2.10	2.10	2.10	2.00	U2.05	2.15	U2.40	U2.50	Median
31	31	31	30	30	30	31	28	17	20	20	19	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : (M3000)F2

TABLE 66 — (Continued.)

Latitude : 10.2° N

Unit :

Ionospheric Data

Longitude : 77.5° E

Month : December 1958

75.0° E Mean Time

Date	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130
1	F	2.60F	U2.80F	3.00	3.20	2.60H	2.75	2.50	2.30	2.15	2.10	2.05
2	F	F	2.70F	2.85	3.00	3.15	U2.90S	2.65	2.45	2.20	2.15	2.10
3	2.60	U2.70S	2.65	2.70	2.40	2.50	2.45	2.50	2.40	2.10	2.05	2.00
4	2.70	2.70	2.95	3.15	3.20	2.75H	U3.05S	2.85	2.70	2.50	2.40	2.35
5	2.60	U2.65S	2.70	2.80	U2.70S	U2.60S	2.60	2.15	2.00	U1.85W	U1.80W	1.90
6	U2.45F	U2.50F	U2.70F	2.90F	3.05	2.50H	2.75	2.65	2.50	2.45	2.40	2.35
7	U2.35F	U2.60F	2.80	U3.15S	3.10	U2.75F	2.70	2.60	2.40	2.30	2.20	2.20
8	2.75	2.80	2.85	2.95	F	3.10	2.95	2.80	2.55	2.30	2.20	2.10
9	2.75	F	U2.80S	2.80	3.00	U2.95S	2.80	2.80	2.65	2.40	2.20	2.05
10	F	2.55	2.80	2.85	3.15	3.20	2.90	2.70	2.60	2.40	2.25	2.15
11	F	F	F	U3.10S	3.15	3.15	2.90	2.70	2.50	2.30	2.20	2.20
12	F	F	F	3.00	3.10	3.05	2.80	2.70	2.60	2.45	2.30	2.20
13	F	F	F	F	3.00	3.10	2.90	2.85	2.80	2.65	2.35	2.25
14	2.50	2.75	U2.80S	U2.60S	2.25F	U2.05F	2.70	2.65	U2.40R	2.35	2.30	2.20
15	U2.40F	2.60	2.75	2.85	3.15	3.05	2.80	2.40H	2.45	2.30	2.15	2.00
16	U2.55S	F	U2.95S	3.05	3.15	3.30	2.90	2.60	2.45	U2.15R	2.15	2.10
17	2.75	2.70	U2.70S	2.80	3.00	U3.20S	2.95S	2.85	2.55	2.20R	2.05	2.10
18	2.80	2.50	2.50F	2.50	2.70	3.30	2.90	2.70	2.65	2.50R	2.35	2.25R
19	F	F	F	F	U2.80F	F	FS	2.90	U2.85F	2.75	J2.55R	2.50
20	2.45	U2.75S	U2.75S	U3.00S	U3.20S	3.40	3.10	2.95	2.65	U2.35R	2.20	2.10
21	2.55	2.90	U2.85S	2.90	U3.05S	3.15	3.00	U2.70S	2.55	2.40	2.25	2.30
22	U2.85S	U2.90S	U2.95S	3.05	3.20	J3.40S	3.15	3.10	2.80	J2.40R	U2.10R	2.25
23	F	F	F	U2.80F	3.00	U3.20R	3.05	2.90	2.55	U2.20R	2.25	U2.20R
24	U2.65S	U2.75S	U2.80S	U2.90S	3.30	3.40	3.00	U2.90S	2.70	2.35	2.20	2.20
25	F	F	U2.85F	3.15	3.30	3.25	2.90	2.65	2.45	2.25	2.20	2.15
26	F	U2.80F	F	F	U2.95F	3.15	3.05	3.00	2.75	2.50	2.20	2.05
27	U2.80S	U2.75S	2.85	J3.05S	2.90	U2.85F	J2.95S	2.90	2.65	2.30	2.10	2.10
28	2.70	2.60	2.65	2.95	3.25	3.30	2.95	2.75	2.40	2.20	2.10	2.10
29	2.75F	J2.90F	U2.75F	2.80	3.05	3.15	3.00	2.90	2.60	2.25	J2.00R	2.05
30	U2.70S	2.80	2.75	2.80	3.00	U3.15S	U2.85S	2.70	2.30	2.20	2.10	2.10
31	2.70	2.50	2.50	2.70	3.00	3.25	2.95	2.80	2.50	2.15	2.05	2.10
Mean	2.65	2.70	2.75	2.90	3.00	3.05	2.90	2.75	2.55	2.30	2.20	2.15
Median	2.70	2.70	2.80	2.90	3.05	3.15	2.90	2.70	2.55	2.30	2.20	2.10
Count	21	22	25	28	30	30	30	31	31	31	31	31

Sweep 1 Mc. to 25 Mc. in 27 seconds.

Characteristic : (M3000)F2

TABLE 66— (Continued.)

Latitude : 10.2° N

Unit :

Ionospheric Data

Longitude : 77.5° E

Month : December 1958

75.0° E Mean Time

1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Date
2.00	2.00	2.00	2.00	2.00	U2.05S	1.95	F	F	F	2.20	F	1
2.10	2.00	2.00	2.00	1.90	U2.00S	U2.00F	2.05F	F	F	2.70	2.65	2
2.00	2.00	2.00	1.95	2.00	U2.15S	2.05	1.95	2.00	2.45	2.30	2.40	3
2.35	2.25	2.25	2.25	2.25	2.15H	1.95H	U2.00F	F	F	F	F	4
1.95	2.00	2.00	2.00	1.90	2.00	2.00	U2.00F	F	F	F	U2.30F	5
2.30	2.35	2.25	2.10	U2.05R	U2.00H	1.85	U1.95FH	U2.10F	F	F	U2.25F	6
2.20	2.15	2.05	1.90	2.00	2.10	1.95	U1.90F	F	F	F	F	7
2.05	2.00	2.00	2.00	2.05	U2.15S	2.15	F	F	F	U2.50F	U2.60F	8
2.05	2.10	2.10	2.00	2.05	1.95	1.95	F	F	2.10	F	F	9
2.05	2.05	2.05	2.00	1.95	2.00	1.95	F	F	F	F	F	10
2.10	2.05	2.00	2.05	2.15	2.10	2.00	2.05	2.10	2.25	2.40	F	11
2.15	2.05	2.00	1.95	2.05	2.10	2.00	2.05	2.10	U2.20S	2.20	F	12
2.20	2.15	2.10	U2.00R	U1.95R	2.10	2.00	F	2.15	U2.30S	U2.40S	2.50	13
2.20	2.25	2.20	2.20	2.10	U2.05S	F	F	F	F	F	F	14
1.95	1.95	2.00	2.05	2.05	U2.10S	U2.10S	2.05	U2.05F	U2.25S	2.50	2.60	15
2.05	2.10	2.10	2.15	2.05S	U2.00R	2.05	2.05	2.20	2.15	2.25	2.40F	16
2.15	2.10	2.10	2.15	2.15	U2.15S	2.05	R	2.05F	2.35	FS	U2.80F	17
2.25	2.25	2.25	2.25	2.20	2.20	R	U1.95R	F	F	F	F	18
J2.45R	2.40	2.40	2.25	U2.20HR	U2.05S	J2.00RH	U2.05S	2.10	2.30	2.30	U2.50R	19
2.20	2.10	2.05	2.05	2.15	U2.25S	2.10	J2.05R	F	F	U2.60S	J2.65R	20
2.25	2.25	2.20	2.10	U2.10S	2.20	J2.20R	U2.30SR	U2.40SR	2.55	U2.55S	U2.70S	21
2.30	2.30	2.30	2.25	2.20	J2.15R	U2.05R	F	F	F	F	F	22
J2.20R	2.10	2.10	2.25	J2.30R	U2.15S	2.05	U2.05SF	U2.00F	U2.30S	J2.60R	J2.55R	23
2.20	2.20	2.25	2.30	2.40	2.45	2.25	2.10	2.20	J2.40HR	F	F	24
2.10	2.15	2.10	2.10	U2.15S	U2.35S	U2.25S	02.05F	U2.05F	J2.10R	F	J2.50F	25
2.00	2.00	2.05	2.10	2.05	2.10	2.05	1.90	2.30	2.65	U2.75S	U2.75S	26
2.05	1.95	1.90	C	C	2.20	2.20	J2.20R	2.40	2.65	2.70	J2.70R	27
2.10	1.95	2.00	2.05	2.05	U2.10S	2.05	1.90F	U2.00F	F	F	U2.75S	28
2.00	2.00	2.00	2.10	2.10	2.05	U2.05F	FS	J2.15F	U2.45R	F	S	29
2.10	2.10	2.15	2.20	U2.25S	2.20	2.10	2.10	2.25	2.40	2.55	2.70	30
2.10	2.15	2.20	2.25	2.30	2.25	2.10	U2.00F	F	J2.20F	F	F	31
2.15	2.10	2.10	2.10	2.10	2.10	2.05	2.05	2.15	2.35	2.45	2.55	Mean
2.10	2.10	2.10	2.10	2.10	2.10	2.05	2.05	2.10	2.30	2.50	2.60	Median
31	31	31	30	30	31	29	22	18	19	16	18	Count

Sweep 1 Mc. to 25 Mc. in 27 seconds.

MAGNETIC DATA

TABLE I

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

July

2° plus tabular quantities

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
1	35.3	34.3	33.3	33.6	35.7	37.1	38.4	38.9	39.1	38.8	38.1	36.7	35.7	35.6	35.9
2†	35.3	34.6	34.6	35.1	36.2	38.3	39.0	39.1	38.8	37.4	36.3	36.0	36.2	36.5	36.5
3	35.8	35.2	34.4	34.5	35.8	36.9	38.9	39.9	39.6	38.0	36.8	35.5	35.2	35.4	36.1
4	35.7	35.1	35.0	35.3	35.4	36.4	38.1	38.8	38.9	37.1	36.3	35.8	36.4	35.7	35.6
5	35.7	34.6	34.7	35.6	36.3	37.1	37.6	37.6	37.7	37.1	36.7	35.7	35.6	35.7	35.3
6†	36.0	34.8	34.8	34.7	35.2	36.5	38.0	38.6	39.3	38.4	37.9	36.2	35.9	35.9	35.9
7	35.9	35.1	34.4	34.8	36.1	37.0	38.0	38.4	38.3	37.9	37.0	36.5	36.6	36.6	36.9
8††	35.2	34.1	34.1	34.7	35.7	36.9	38.2	39.2	41.1	40.0	40.6	38.9	35.8	36.5	37.8
9††	28.3	27.1	28.5	30.5	33.0	35.1	35.7	35.7	35.4	34.0	33.2	32.3	32.2	32.2	31.6
10	33.9	33.6	32.6	33.3	34.0	34.7	36.7	37.1	37.2	37.2	36.8	35.7	35.3	35.0	34.7
11	35.3	34.4	33.7	33.8	34.9	36.1	37.7	38.8	38.7	38.0	37.1	36.3	35.4	35.3	35.3
12	34.3	33.3	32.6	33.9	36.0	37.1	39.1	39.6	39.2	38.0	35.9	34.9	35.0	35.2	35.2
13	35.2	34.0	33.5	33.8	35.0	36.0	38.4	38.0	37.4	36.6	35.6	34.9	34.2	34.7	35.4
14	35.4	34.7	34.2	34.9	35.9	36.4	37.4	38.0	38.4	37.8	36.7	35.2	34.5	34.7	35.4
15†	35.7	35.2	34.6	34.5	35.2	36.3	37.6	38.1	37.9	38.1	37.7	36.3	35.3	35.1	35.1
16†	35.3	34.9	33.9	33.9	35.2	37.2	39.0	39.7	40.2	39.3	37.4	36.7	36.3	35.9	36.0
17	35.1	33.9	34.8	36.1	37.5	39.0	39.3	39.4	38.7	38.2	36.8	36.2	35.8	35.4	35.5
18††	34.1	33.3	32.7	34.2	36.1	37.0	38.8	38.8	37.8	37.4	36.5	36.3	36.0	36.1	36.5
19	34.9	33.9	33.5	34.0	35.1	36.3	37.8	39.1	37.8	37.4	35.8	35.4	35.1	35.4	36.3
20	35.1	33.9	32.6	33.5	34.5	36.0	37.7	39.9	39.5	39.1	38.0	36.4	35.7	35.0	35.0
21††	35.3	34.5	33.5	33.5	34.7	35.8	37.5	38.0	38.3	37.5	36.6	36.2	36.1	35.9	36.2
22	35.1	34.1	33.0	33.1	34.7	36.3	37.6	38.7	39.4	39.0	37.6	36.2	35.2	35.6	35.4
23†	35.2	34.8	34.4	34.9	35.6	37.3	38.3	39.0	38.8	38.7	37.7	36.9	36.2	35.9	35.9
24	35.5	34.8	33.8	34.1	35.9	37.8	39.2	40.1	39.2	38.1	37.8	37.4	37.6	36.7	36.9
25	34.9	34.8	34.5	34.9	36.3	36.7	38.0	40.2	39.5	39.1	37.7	35.2	34.8	34.9	35.2
26	34.6	33.4	32.1	32.8	35.2	37.3	40.2	40.9	40.6	39.7	38.3	37.1	36.2	35.9	36.0
27††	34.8	33.9	33.6	34.4	36.4	38.2	39.6	40.3	40.2	38.4	37.2	36.8	35.3	34.9	34.7
28	33.3	32.1	31.5	32.8	35.0	37.5	39.9	40.6	40.6	39.9	37.9	37.5	36.5	36.1	36.0
29	35.3	34.7	33.7	33.6	35.0	37.2	39.1	39.2	38.5	37.9	38.1	37.1	36.1	35.6	36.3
30	35.6	34.7	33.9	35.0	36.4	37.8	39.3	40.5	40.3	39.5	39.2	38.1	37.4	36.7	36.0
31	35.8	35.1	34.9	35.3	37.4	39.2	40.5	40.7	40.7	39.2	37.1	36.0	35.3	35.3	35.7
Mean .	34.9	34.1	33.6	34.2	35.5	36.9	38.4	39.1	38.9	38.4	37.2	36.2	35.6	35.5	35.7
Mean† .	35.5	34.9	34.5	34.6	35.5	37.1	38.4	38.9	39.0	38.4	37.4	36.4	35.9	35.9	35.9
Mean†† .	33.5	32.6	32.5	33.5	35.2	36.6	38.0	38.4	38.6	37.5	36.8	36.1	35.1	35.1	35.4

†Five international quiet days.

††Five international disturbed days.

△Loss of record; day omitted for means.

TABLE I

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

July

2° plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
										H. M.		H. M.			
36.3	36.3	36.4	36.4	36.3	36.4	36.3	36.3	35.9	36.4	07 42	39.4	02 00	33.3	6.1	1
36.7	37.0	37.0	36.9	36.6	36.5	36.5	36.3	36.2	36.6	06 30	39.4	01 12	34.3	5.1	2†
36.8	36.5	36.1	36.1	35.9	36.1	36.4	36.2	35.9	36.4	07 00	39.9	01 50	34.2	5.7	3
35.7	36.1	35.8	36.0	36.0	36.1	36.1	35.8	36.1	36.2	07 28	39.9	01 00	34.8	5.1	4
36.0	36.7	37.0	36.9	36.9	36.7	36.7	36.7	36.7	36.4	07 48	37.8	01 20	34.4	3.4	5
36.5	36.6	36.9	36.9	37.0	36.8	36.6	36.5	36.3	36.6	08 00	39.3	01 22	34.5	4.8	6†
36.9	37.0	37.5	37.3	36.6	36.1	35.9	35.6	35.5	36.6	07 00	38.4	01 40	34.2	4.2	7
37.1	34.6	34.3	33.3	31.1	29.4	28.4	28.3	29.0	35.2	08 05	43.4	21 58	27.3	16.1	8††
33.2	34.4	34.7	35.0	35.0	35.0	35.0	34.8	34.3	33.2	06 45	36.0	00 35	26.9	9.1	9††
35.5	35.5	35.7	35.7	35.5	35.4	35.3	35.1	35.4	33.3	07 34	37.5	02 05	32.5	5.0	10
35.4	35.7	36.0	35.9	35.7	35.6	35.4	35.3	35.0	35.9	07 48	39.2	02 25	33.6	5.6	11
36.1	36.3	36.4	36.0	35.7	36.1	36.0	35.6	35.4	36.0	07 50	39.8	01 39	32.4	7.4	12
36.3	36.4	36.6	36.6	36.4	36.1	36.1	36.0	35.7	35.8	05 55	38.5	02 00	33.5	5.0	13
35.9	36.1	36.1	36.4	36.4	36.4	36.3	36.3	36.1	36.1	08 12	38.8	02 00	34.0	4.8	14
35.6	36.0	36.3	36.2	36.0	36.0	36.0	35.9	35.6	36.1	07 00	38.1	02 35	34.3	4.8	15†
36.3	36.2	36.0	35.9	35.6	35.6	35.3	35.2	35.2	36.3	08 12	40.4	02 00	33.8	6.6	16†
35.8	35.9	35.9	35.8	35.2	35.1	35.1	34.8	34.7	36.2	06 45	39.6	01 02	33.7	6.1	17
36.8	36.7	36.4	35.8	35.4	35.4	35.3	35.3	34.9	36.0	07 20	39.3	02 00	32.7	6.6	18††
36.3	36.4	36.3	36.3	36.0	36.0	36.1	35.4	35.1	35.9	06 55	39.3	01 35	33.3	6.0	19
35.9	35.6	36.0	35.9	35.9	35.7	35.6	35.3	35.3	36.0	07 15	40.4	02 00	32.6	7.8	20
36.1	36.2	36.9	36.1	35.6	35.5	35.2	35.4	35.8	35.9	08 00	38.6	02 00	33.2	5.4	21††
35.9	36.2	36.1	36.2	36.2	36.1	35.8	35.6	35.6	36.0	07 34	40.0	02 16	32.7	7.3	22
36.3	36.6	36.4	36.3	36.0	36.0	35.9	35.7	35.6	36.4	07 30	39.1	02 00	34.4	4.7	23†
36.9	36.4	36.4	36.2	35.9	35.5	35.3	35.3	35.2	36.6	07 00	40.2	02 06	33.5	6.7	24
35.5	35.9	35.6	35.6	35.9	35.6	35.2	35.2	34.9	36.1	07 14	40.5	02 30	34.2	6.3	25
36.0	36.0	36.0	36.0	35.9	35.5	36.2	35.7	35.2	36.4	07 00	41.7	02 30	31.8	9.9	26
34.7	35.0	35.3	35.3	35.4	35.3	34.6	34.2	33.9	35.9	07 30	40.9	02 00	33.5	7.4	27††
36.1	36.1	35.7	36.0	36.1	36.1	35.7	35.3	35.3	36.2	07 34	40.9	02 00	31.1	9.8	28
36.5	36.5	36.4	36.1	36.3	36.3	36.0	36.0	36.1	36.4	07 10	39.5	03 45	32.9	6.6	29
36.0	35.8	35.7	36.0	35.8	36.0	36.1	36.3	36.0	36.8	07 26	40.7	01 38	33.6	7.1	30
36.4	36.7	36.0	36.3	36.0	36.0	36.3	36.3	36.0	36.8	07 30	41.0	01 30	34.7	6.3	31
36.0	36.1	36.1	36.0	35.8	35.7	35.6	35.4	35.3	36.1	..	..	..	..	6.5	Mean
36.3	36.5	36.5	36.4	36.2	36.2	36.1	35.9	35.8	..	..	..	..	..	..	Mean†
35.6	35.4	35.5	35.1	34.5	34.2	33.7	33.6	33.6	..	..	..	..	..	..	Mean††

†Five international quiet days.

††Five international disturbed days.

Δ Loss of record; day omitted for means.

TABLE 2

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

August

2° plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
1	35.7	34.4	33.6	33.6	35.0	36.4	37.4	37.7	37.6	38.0	38.0	36.3	35.7	35.7	36.0
2	35.0	33.6	32.5	33.1	34.8	36.9	38.5	39.8	40.9	39.1	37.0	35.6	34.9	34.9	34.9
3	35.9	34.6	33.5	33.4	34.6	36.3	37.4	38.8	39.0	38.7	36.6	35.3	34.5	34.5	35.0
4†	35.6	34.6	33.9	34.8	35.6	37.3	37.8	37.8	37.7	37.6	36.6	36.2	35.9	35.3	35.3
5†	35.5	34.5	33.6	34.2	34.9	36.0	36.4	37.7	38.4	37.6	36.6	35.3	34.9	35.0	35.7
6†	35.3	34.8	33.6	33.6	35.2	37.0	38.1	38.7	38.7	39.1	38.1	37.1	36.3	36.0	35.9
7	35.0	34.8	33.6	33.7	34.8	36.1	37.3	38.0	38.0	38.0	36.8	35.4	34.4	34.0	35.4
8†	34.8	33.5	32.8	34.9	36.2	36.3	36.3	36.8	36.6	36.3	36.2	35.9	35.2	35.1	35.6
9	34.5	33.1	32.1	32.7	34.0	36.2	37.7	38.7	39.1	38.7	37.5	36.5	35.6	35.1	35.9
10	34.9	34.9	33.4	34.1	35.2	37.2	38.0	37.7	37.0	36.3	35.9	34.9	35.1	36.1	35.9
11	35.1	33.7	32.8	33.4	34.8	36.6	37.9	38.9	38.6	37.5	36.3	35.1	34.8	34.9	35.2
12	34.8	33.5	33.4	34.6	36.2	38.0	39.1	39.5	39.1	37.8	36.7	36.2	36.0	35.5	35.9
13	34.9	33.5	32.5	33.4	34.8	37.4	39.4	39.5	40.2	40.1	39.1	36.3	35.5	34.8	35.2
14	34.8	33.5	32.5	33.2	35.2	37.4	39.1	39.9	39.5	39.1	38.5	37.7	36.7	36.2	35.9
15	35.2	33.8	32.8	33.5	34.8	36.2	37.8	38.0	37.7	37.6	36.6	36.4	35.6	35.2	36.2
16	34.8	32.9	32.5	33.4	36.2	39.2	41.6	41.6	40.5	39.4	38.0	36.4	36.0	35.3	35.3
17††	35.0	33.4	32.4	33.5	35.0	37.6	40.4	41.9	42.3	41.1	39.4	37.6	36.3	35.0	34.8
18††	32.5	30.7	30.6	31.7	33.8	36.0	36.6	38.8	38.8	37.8	36.3	35.7	35.2	34.9	34.9
19	34.2	33.8	32.5	31.7	33.6	36.0	38.0	40.5	40.6	40.6	39.2	37.4	36.0	35.0	34.9
20†	35.0	33.8	32.8	32.9	34.7	36.4	38.2	39.8	39.9	39.5	39.1	37.5	36.3	35.1	35.1
21	36.0	35.1	33.9	34.7	36.1	36.5	37.4	38.1	38.4	37.9	37.8	37.4	36.7	36.3	36.1
22††	35.4	34.4	33.6	34.6	35.6	35.6	36.8	35.4	36.7	37.1	37.4	37.4	36.7	36.0	35.7
23	34.4	33.7	33.6	34.3	35.8	36.8	38.4	38.2	38.4	37.7	37.1	36.0	35.3	35.7	35.7
24††	34.7	33.9	32.2	30.8	32.3	32.5	34.3	36.3	36.5	36.7	36.5	35.3	34.3	32.9	33.6
25	34.3	33.3	33.0	33.2	34.3	35.4	36.7	37.7	37.4	37.4	37.1	35.6	34.2	34.2	34.6
26	35.1	34.2	33.6	35.0	36.8	38.0	39.3	39.6	37.9	36.4	35.5	34.5	33.7	33.7	34.5
27††	34.8	33.7	33.3	34.9	36.6	38.0	38.3	40.5	37.6	35.6	34.9	35.1	35.1	34.4	34.6
28	34.2	33.0	32.7	34.2	36.6	39.0	40.5	41.1	40.7	39.4	38.3	37.2	35.9	35.5	33.9
29	34.9	33.1	32.1	32.8	34.5	36.7	38.5	39.5	40.2	39.9	38.4	36.3	35.2	34.0	34.2
30	35.3	33.8	32.8	33.6	35.5	37.5	39.3	40.6	40.6	39.6	38.5	37.1	35.7	34.8	35.0
31	35.4	34.1	33.1	34.1	35.7	37.6	39.7	41.3	41.0	39.6	37.9	36.7	35.8	35.1	35.1
Mean	34.9	33.8	32.9	33.6	35.1	36.8	38.1	39.0	38.9	38.3	37.4	36.2	35.5	35.0	35.2
Mean†	35.2	34.2	33.3	33.9	34.2	36.6	37.4	38.2	38.3	38.0	37.3	36.4	35.7	35.3	35.5
Mean††	34.5	33.2	32.4	33.1	34.7	35.9	37.3	38.6	38.4	37.7	36.9	36.2	35.5	34.6	34.7

†Five international quiet days.

††Five international disturbed days.

ΔLoss of record; day omitted for means.

TABLE 2

Hourly values of Declination (Westerly), 1958

(Average for sixty minutes centred at the full hours of Greenwich Mean Time)

August

2° plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
										H. M.		H. M.			
36.4	36.7	36.4	36.3	36.0	36.2	35.7	35.9	35.5	36.1	09 30	38.5	01 40	33.5	5.0	1
36.0	36.3	36.0	36.0	36.2	36.3	36.3	36.2	36.2	36.1	08 02	41.2	02 00	32.4	8.8	2
35.3	35.9	35.9	35.9	35.9	35.9	36.0	36.0	36.0	35.9	08 30	39.1	02 44	33.2	5.9	3
36.0	36.3	36.3	36.3	36.3	36.3	36.2	36.2	35.9	36.2	06 30	38.0	02 05	33.8	4.2	4†
36.2	36.3	36.3	36.3	36.3	36.0	36.0	35.9	35.5	35.9	07 40	39.0	01 45	33.5	5.5	5†
36.2	36.3	36.3	36.2	36.0	35.7	35.5	35.3	35.3	36.3	08 46	39.2	02 30	33.5	5.7	6†
36.2	36.2	36.1	35.8	35.4	35.4	35.4	35.2	34.9	35.7	08 30	38.6	02 22	33.4	5.2	7
35.9	36.1	36.1	35.9	35.8	35.6	35.5	35.2	34.9	35.5	07 24	37.3	01 40	32.7	4.6	8†
36.2	36.1	35.8	35.8	35.6	35.4	34.9	34.9	35.1	35.7	08 25	39.4	02 00	32.0	7.4	9
35.8	35.8	35.6	35.8	35.9	36.1	35.5	36.1	35.8	35.8	06 12	38.6	01 40	33.3	5.3	10
35.8	35.9	35.9	35.9	35.9	35.5	35.4	35.2	35.2	35.7	07 05	39.1	01 54	32.7	6.4	11
36.0	36.2	36.0	36.0	35.9	35.7	35.6	35.6	35.3	36.2	07 07	39.8	01 25	33.3	6.5	12
35.3	35.6	35.2	35.2	34.9	34.9	34.9	34.9	34.9	35.9	08 28	40.4	02 00	32.4	8.0	13
36.0	36.2	36.3	36.2	35.6	35.5	35.6	35.7	35.3	36.3	07 18	40.1	02 05	32.4	7.7	14
36.3	36.3	36.2	36.0	35.7	35.3	35.2	35.3	35.0	35.8	07 30	38.1	01 36	32.7	5.4	15
35.9	36.2	35.9	35.9	35.9	35.3	35.2	35.2	35.2	36.4	06 35	41.9	01 30	32.2	9.7	16
35.9	35.0	35.0	35.0	33.8	33.9	33.5	33.5	33.2	36.0	08 00	43.2	01 34	32.1	11.1	17††
34.9	35.2	34.9	34.9	34.9	34.9	34.9	34.8	34.6	34.9	07 00	39.5	01 40	30.3	9.2	18††
35.0	35.3	35.9	35.9	36.0	35.9	35.3	35.2	35.2	36.0	08 34	40.9	01 45	31.4	9.5	19
35.4	35.8	36.0	35.7	35.6	35.4	35.7	35.7	35.7	36.1	07 42	40.2	02 34	32.5	7.7	20†
6.1	36.3	36.1	36.1	36.0	36.0	35.4	35.4	35.4	36.3	07 40	38.6	02 08	33.7	4.9	21
35.8	35.8	35.1	35.1	35.1	35.0	34.7	34.7	34.7	35.6	07 06	37.7	02 00	33.5	4.2	22††
36.0	36.1	36.0	35.6	35.1	35.3	35.3	35.0	35.0	35.9	07 14	38.9	02 00	33.5	5.4	23
34.7	34.9	35.3	35.1	35.1	35.0	35.0	34.9	34.6	34.6	09 40	37.2	03 09	30.5	6.7	24††
35.1	35.3	35.4	35.6	35.3	35.3	35.1	35.1	35.1	35.2	06 57	38.1	02 30	32.6	5.5	25
35.1	35.2	35.2	35.2	35.2	35.2	35.1	35.1	35.1	35.6	06 45	39.9	01 40	33.5	6.4	26
34.1	35.1	34.9	34.9	35.1	35.2	35.2	34.9	34.8	35.5	06 38	41.5	01 35	33.0	8.5	27††
33.9	34.8	35.1	35.1	35.3	35.3	35.1	35.5	35.5	36.2	07 12	41.4	01 25	32.4	9.0	28
35.2	35.4	35.6	35.6	35.7	36.1	35.7	35.7	35.6	35.9	08 32	40.8	02 00	32.0	8.8	29
35.4	35.5	35.7	35.8	35.8	35.8	36.1	35.8	35.5	36.3	07 15	40.7	02 00	32.7	8.0	30
35.4	35.5	35.5	35.8	35.8	36.0	35.8	35.8	35.8	36.4	07 15	41.7	02 00	33.0	8.7	31
35.6	35.8	35.7	35.7	35.6	35.5	35.4	35.4	35.2	35.9	..	..	..	..	6.9	Mean
35.9	36.2	36.1	36.1	36.0	35.8	35.8	35.7	35.5	..	..	..	..	..	..	Mean†
35.1	35.2	35.0	35.0	34.8	34.8	34.7	34.6	34.4	..	..	..	..	..	..	Mean††

†Five international quiet days.

††Five international disturbed days.

△Loss of record ; day omitted for means.

TABLE 3

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

September

2° plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	35.4	34.0	32.5	32.5	33.0	35.3	38.1	39.6	39.3	38.1	36.8	35.3	34.3	34.6	35.0
2	35.3	33.6	32.6	34.0	35.9	38.5	40.9	41.6	40.5	39.2	38.0	37.0	36.7	36.4	36.4
3††	35.6	33.8	32.5	33.2	35.2	37.0	39.8	40.8	39.5	38.4	35.6	34.2	35.0	34.0	32.9
4††	32.8	31.0	31.1	32.5	34.6	36.6	38.1	39.0	38.4	38.0	36.9	36.3	36.2	36.2	35.3
5††	30.4	28.8	30.6	31.7	33.3	34.2	36.7	37.2	37.4	36.7	35.2	33.7	33.4	32.7	32.5
6	34.8	33.5	32.1	32.1	33.2	35.3	35.7	38.1	38.7	37.7	36.2	34.9	34.2	34.1	34.8
7	34.8	33.7	32.3	32.3	33.7	36.1	37.9	38.6	38.0	37.6	36.5	35.2	34.8	35.0	35.0
8	34.7	32.4	31.2	32.7	35.1	37.5	38.2	38.9	38.2	37.8	36.6	35.5	35.4	35.2	35.4
9	34.8	32.9	31.5	33.0	35.1	37.9	39.4	40.1	39.9	38.6	37.1	35.4	35.1	35.1	34.5
10	34.0	32.4	32.2	33.5	36.0	37.8	38.9	39.1	38.8	37.0	35.1	34.4	34.3	34.9	34.6
11	34.4	33.5	32.6	33.2	35.4	37.7	39.3	39.6	38.8	39.5	36.8	35.3	35.1	35.4	35.6
12	34.6	33.6	33.6	34.4	36.0	37.9	38.6	39.3	39.3	37.8	36.5	35.4	35.4	35.6	35.7
13†	35.0	33.3	32.2	32.2	34.5	36.4	39.0	40.4	40.2	39.2	38.4	37.0	35.9	35.2	35.6
14†	35.5	34.8	33.5	33.6	34.9	36.6	38.4	39.8	39.8	38.7	36.6	35.9	35.9	35.7	35.6
15	35.2	33.8	32.7	33.4	36.6	38.4	39.5	40.2	40.4	40.0	38.5	36.4	35.7	35.7	35.7
16††	35.1	34.0	33.7	Δ	36.0	37.6	39.1	39.2	39.5	38.8	37.8	36.4	36.3	36.3	36.0
17	33.1	31.8	32.4	34.1	36.1	37.5	38.4	38.9	37.7	36.2	34.7	33.8	34.0	34.2	34.5
18†	34.7	33.4	32.4	33.8	35.9	37.9	40.4	41.7	40.5	38.9	36.3	34.9	34.7	34.7	34.8
19	34.8	33.5	32.4	32.0	33.3	35.1	37.6	39.1	39.0	37.6	36.5	35.9	35.2	34.9	35.1
20	35.1	34.5	33.1	33.3	34.8	37.3	38.9	39.1	38.6	37.6	36.2	35.5	35.5	35.5	35.5
21†	35.1	34.5	33.1	33.5	34.9	36.9	38.7	39.7	39.0	37.5	36.1	34.8	35.1	35.5	35.2
22†	34.9	34.4	33.3	33.5	35.6	37.4	39.0	39.5	39.4	37.4	35.0	34.9	35.6	36.2	36.0
23	35.0	33.8	33.8	34.5	36.2	37.6	39.4	40.6	39.5	38.1	37.1	36.7	36.4	36.3	35.7
24	35.0	33.6	33.2	34.2	36.2	38.0	40.2	40.4	40.2	38.5	36.7	35.5	35.7	36.0	35.2
25††	34.9	34.5	34.1	35.0	36.4	37.6	38.0	36.9	34.8	33.2	32.4	32.2	31.7	30.8	31.4
26	33.2	32.1	32.5	34.2	36.2	37.8	38.1	37.6	36.6	35.9	34.8	33.6	33.5	33.5	33.5
27	34.9	34.1	33.6	34.6	35.4	36.3	36.4	36.7	37.1	36.3	35.0	34.6	34.9	35.1	35.0
28	35.1	33.9	33.6	34.9	36.3	Δ	Δ	Δ	Δ	Δ	Δ	35.0	35.4	35.8	35.3
29	35.7	35.1	34.7	35.0	35.8	37.4	37.9	38.4	38.2	37.1	36.0	35.4	36.3	36.3	36.1
30	36.1	35.1	34.7	34.4	35.3	36.5	37.9	39.1	38.1	37.1	36.4	35.1	35.1	34.7	34.7
Mean	34.6	33.4	32.7	33.4	35.2	37.0	38.6	39.3	38.8	37.7	36.2	35.2	35.0	35.0	34.9
Mean†	35.0	34.1	32.9	33.3	35.2	37.0	39.1	39.8	39.8	38.3	35.5	35.5	35.4	35.5	35.4
Mean††	34.4	32.0	32.1	33.1	35.0	36.3	38.1	38.5	37.5	36.6	35.0	34.1	34.1	33.4	33.0

†Five international quiet days.

††Five international disturbed days.

ΔLoss of record; day omitted for means.

TABLE 3

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

September

2° plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
										H. M.		H. M.			
35.3	35.7	36.2	36.2	36.2	36.2	36.4	36.2	36.0	35.8	06 45	39.7	02 30	32.2	7.5	1
36.6	36.7	36.7	36.7	36.6	36.6	36.6	36.4	36.3	36.9	07 00	41.7	01 37	32.5	9.2	2
35.0	36.4	36.0	35.3	35.2	36.0	35.0	33.9	33.8	35.6	06 55	40.9	02 00	32.5	8.4	3††
32.5	31.0	31.3	30.7	31.1	31.3	31.3	30.6	29.9	33.9	07 14	39.1	22 39	28.9	0.2	4††
33.5	33.8	34.2	34.2	34.4	34.8	34.8	34.8	34.8	33.9	07 55	38.4	01 14	27.9	0.5	5††
34.9	35.1	35.1	35.1	35.2	35.2	35.2	35.2	35.6	35.1	08 00	38.7	02 40	32.0	6.7	6
34.5	34.1	34.1	34.3	34.7	35.0	34.7	34.7	34.5	35.1	07 00	38.9	02 02	32.0	6.9	7
35.4	35.4	35.7	35.4	35.1	35.1	35.2	35.1	35.1	35.5	06 45	39.2	01 45	31.0	8.2	8
34.5	35.0	35.2	35.2	35.0	35.0	35.0	34.7	34.4	35.6	06 58	40.7	01 46	31.2	9.5	9
35.3	35.4	35.3	25.3	35.1	35.1	35.0	34.9	34.7	35.4	07 28	39.2	01 32	32.0	7.2	10
35.6	35.6	35.4	35.3	35.0	35.0	35.0	35.0	34.9	35.8	06 45	40.2	02 16	32.5	7.7	11
35.8	35.8	35.6	35.4	35.3	35.1	35.1	35.3	35.1	35.9	07 25	39.9	01 30	33.5	6.4	12
35.9	35.7	35.9	35.6	35.5	35.3	35.3	35.7	35.9	36.1	07 00	40.6	02 00	32.2	8.4	13†
35.9	35.7	35.7	35.7	35.3	35.2	35.5	35.6	35.5	36.1	07 30	40.2	02 00	33.5	6.7	14†
35.9	35.9	35.9	35.5	35.3	35.4	35.5	35.5	35.4	36.4	07 30	40.5	02 00	32.7	7.8	15
36.0	36.0	35.2	35.2	33.8	33.8	33.8	34.1	33.5	Δ	Δ	Δ	Δ	Δ	Δ	16††
34.8	34.8	35.1	35.1	35.1	34.9	35.1	35.1	34.9	35.1	06 40	39.1	00 55	31.5	7.6	17
34.8	34.9	35.1	34.9	34.8	34.8	34.8	34.8	34.8	35.8	07 00	41.8	02 00	32.4	9.4	18†
34.9	35.1	35.1	35.1	35.1	34.9	34.9	35.2	35.1	35.3	07 00	39.1	03 00	32.0	7.1	19
35.4	35.5	35.5	35.4	34.9	34.8	34.9	34.9	34.9	35.7	07 00	39.1	02 05	32.8	6.3	20
35.1	35.1	34.9	34.9	34.8	34.7	34.8	35.1	34.9	35.6	06 48	40.0	02 13	32.8	7.2	21†
36.0	36.0	35.9	35.7	35.2	35.0	35.3	35.6	35.5	35.9	07 30	39.8	02 00	33.1	6.7	22†
35.6	35.7	35.6	35.3	35.2	35.2	35.5	35.7	35.6	36.3	06 56	40.8	01 30	33.5	7.3	23
35.2	35.2	35.2	35.0	35.0	34.9	34.9	34.9	34.9	36.0	07 15	40.5	01 30	33.1	7.4	24
31.7	31.0	32.2	33.2	33.2	33.1	33.2	33.1	32.8	33.6	05 25	38.2	12 58	30.7	7.5	25††
33.6	34.5	34.5	34.5	34.6	34.8	34.9	34.9	34.9	34.8	06 04	38.4	01 12	32.0	6.4	26
35.0	35.0	35.3	35.1	35.1	35.1	35.1	35.3	35.1	35.3	07 56	37.4	01 45	33.5	3.9	27
35.3	36.0	36.0	35.8	35.7	35.4	35.4	35.7	36.0	Δ	Δ	Δ	Δ	Δ	Δ	28
36.1	36.4	36.4	36.3	36.1	36.0	35.8	36.0	36.1	36.3	06 46	38.8	01 55	34.6	4.2	29
35.0	35.0	35.0	34.7	35.0	34.9	35.0	35.1	35.0	35.6	07 00	39.1	02 44	34.0	5.1	30
35.0	35.1	35.1	35.0	35.0	35.0	35.0	35.0	34.9	35.5	..	..	..	..	7.4	Mean
35.5	35.5	35.5	35.4	35.1	35.0	35.1	35.4	35.3	..	..	..	..	..	..	Mean†
33.2	33.1	33.4	33.3	33.5	33.8	33.6	33.1	32.8	..	..	..	..	..	..	Mean††

†Five international quiet days.

††Five international disturbed days.

ΔLoss of record; day omitted for means.

TABLE 4

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

October

2° plus tabular quantities

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
1	35.1	34.6	34.4	35.7	37.4	37.9	38.1	37.4	36.8	36.5	36.0	35.7	36.0	36.1	36.1
2	35.1	35.0	35.0	35.1	36.3	37.4	37.8	38.2	37.9	37.4	37.0	36.4	36.4	36.1	35.8
3	35.4	35.0	34.6	34.3	35.3	36.5	37.8	38.8	37.9	37.4	36.4	36.0	36.0	35.3	35.1
4†	35.3	34.7	34.3	35.3	36.4	37.8	39.1	39.6	39.2	38.4	37.4	36.7	36.7	36.3	35.7
5	36.4	35.6	34.9	35.1	36.2	37.2	38.0	39.2	39.4	38.9	37.8	36.8	36.5	36.2	36.2
6	35.4	35.1	34.4	34.8	36.1	37.1	38.9	39.2	39.0	37.8	36.8	36.4	36.4	36.2	35.8
7	36.4	36.1	35.8	36.2	37.3	37.9	38.5	39.3	39.2	37.8	36.6	36.4	36.8	36.5	36.4
8	35.4	35.1	35.1	35.4	36.4	36.6	38.0	37.9	37.6	36.8	36.1	35.8	36.4	36.5	36.2
9†	36.5	36.4	36.4	36.9	38.6	39.2	39.3	39.3	38.9	37.9	36.8	36.8	37.1	36.6	36.5
10†	36.5	36.2	36.1	35.9	36.6	37.5	38.9	39.4	39.4	38.9	37.9	37.2	37.5	37.2	36.6
11†	36.4	35.4	35.0	35.4	36.6	38.2	39.2	39.3	38.3	37.5	36.6	36.5	37.1	36.8	36.5
12†	36.1	35.4	35.1	35.1	36.4	37.9	39.3	39.6	39.2	38.0	37.2	36.6	36.6	36.6	36.5
13	36.4	35.5	35.5	36.5	37.7	39.3	41.1	40.9	39.8	38.1	36.6	36.2	36.3	36.3	36.2
14	36.6	36.2	36.2	36.7	38.1	40.4	41.8	42.1	40.7	39.1	37.6	36.3	36.3	36.6	36.7
15	36.6	36.2	36.5	36.5	37.9	39.4	40.5	39.8	39.1	37.0	36.3	35.5	35.9	36.5	36.5
16	36.5	35.8	35.1	34.5	35.9	37.9	39.4	39.0	38.4	37.9	35.6	36.2	36.7	36.7	36.5
17	36.6	36.3	36.2	36.7	37.9	38.4	40.5	39.4	39.1	38.3	38.0	37.7	37.3	36.9	36.6
18	36.6	36.3	35.5	35.9	36.9	39.3	40.5	40.4	39.8	39.0	38.1	37.4	37.2	36.7	36.6
19	36.7	36.3	35.6	35.5	36.2	37.2	39.2	39.4	39.0	37.9	37.5	36.9	36.6	36.5	36.4
20	36.2	35.7	35.4	36.1	36.6	37.8	39.3	40.3	40.1	39.7	38.6	37.8	37.6	36.6	36.5
21	36.8	36.1	36.1	36.6	36.9	37.9	39.4	39.9	39.4	38.9	37.5	36.4	36.4	36.4	36.1
22††	36.1	35.5	36.1	36.6	38.2	39.2	40.6	39.0	37.9	36.5	36.4	36.4	36.1	35.5	35.2
23††	35.0	35.0	35.0	35.2	35.2	35.4	35.2	33.8	33.7	33.4	33.3	33.7	34.7	34.5	33.8
24††	35.2	35.1	36.1	36.5	36.4	36.6	37.6	37.5	36.6	34.8	32.4	31.6	32.2	31.7	31.7
25	34.7	34.8	35.5	36.4	36.8	37.9	37.8	37.1	36.1	35.3	34.7	33.9	34.9	34.9	34.7
26	35.0	35.0	35.0	35.7	36.4	37.7	37.9	37.2	36.3	35.1	35.0	35.0	35.1	35.3	35.3
27††	35.4	35.3	35.4	35.8	36.1	36.4	36.4	36.5	35.4	35.0	35.1	35.1	35.7	35.8	35.7
28††	35.7	35.3	35.3	35.4	36.1	35.1	37.7	37.7	36.4	36.1	36.0	35.6	36.3	35.1	35.1
29	36.0	36.0	35.7	35.1	35.6	36.4	36.3	36.3	35.1	35.1	35.4	36.3	36.5	36.0	35.1
30	36.3	36.3	36.3	36.4	36.4	37.4	37.2	36.5	37.5	36.5	36.3	36.0	36.1	36.1	35.7
31	36.3	36.3	36.3	36.0	36.4	37.4	37.5	37.4	37.1	37.0	36.7	36.4	36.4	36.4	36.1
Mean	36.0	35.6	35.5	35.8	36.7	37.7	38.7	38.6	38.1	37.2	36.4	36.1	36.3	36.0	35.8
Mean†	36.2	35.6	35.4	35.7	36.9	38.1	39.2	39.4	39.0	38.1	37.2	36.8	37.0	36.7	36.4
Mean††	35.5	35.2	35.6	35.9	36.4	36.5	37.5	36.9	37.9	35.2	34.6	34.5	35.0	34.5	34.3

†Five international quiet days.

††Five international disturbed days.

△Loss of record; day omitted for means.

TABLE 4

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

October

2° plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
										H. M.		H. M.			
36.1	36.3	36.1	35.8	35.7	35.3	35.3	35.3	35.1	36.0	05 30	38.9	01 25	34.2	4.7	1
35.7	36.0	36.0	35.7	35.6	35.3	35.4	35.3	35.6	36.1	06 45	38.5	01 28	34.9	3.6	2
35.3	35.1	35.0	34.9	35.1	35.3	35.3	35.3	35.3	35.8	06 38	39.1	02 54	33.9	5.2	3
35.7	36.0	36.1	36.1	36.1	36.0	36.0	36.0	36.4	36.6	07 15	40.0	01 48	34.2	5.8	4†
36.2	36.2	36.2	35.9	35.4	35.4	35.4	35.1	35.5	36.5	07 00	39.7	02 25	34.7	5.0	5
36.1	36.1	36.1	36.1	35.7	35.4	35.4	35.2	36.2	36.3	06 30	39.3	02 00	34.4	4.9	6
36.2	36.2	36.1	35.8	35.7	35.7	36.1	35.9	35.5	36.7	07 00	39.3	23 50	35.2	4.1	7
36.4	36.4	36.4	36.4	36.2	36.2	36.4	36.4	36.4	36.4	06 12	38.6	01 36	34.7	3.9	8
36.4	36.4	36.5	36.5	36.4	36.2	36.4	36.4	36.5	37.1	05 30	39.4	19 32	36.1	3.3	9†
36.5	36.5	36.5	36.5	36.4	36.4	36.4	36.5	36.5	37.1	07 52	39.6	02 30	35.8	3.8	10†
36.5	36.5	36.4	36.2	35.8	35.7	35.7	35.8	35.8	36.6	07 00	39.3	02 00	35.0	4.3	11†
36.5	36.5	36.5	36.4	36.1	36.1	36.1	36.1	35.8	36.7	06 45	39.7	02 00	35.1	4.6	12†
36.3	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.6	37.1	06 24	42.1	01 15	35.4	6.7	13
36.6	36.6	36.6	36.6	36.6	36.5	36.5	36.5	36.5	37.5	06 45	42.2	01 05	35.6	6.6	14
36.5	36.5	36.3	36.3	36.2	36.0	36.2	36.3	36.3	37.0	05 42	40.8	11 00	35.5	5.3	15
36.5	36.6	36.5	36.3	36.2	35.6	35.9	36.3	36.5	36.6	05 42	39.7	02 52	34.4	5.3	16
36.6	36.6	36.6	36.5	36.3	36.3	36.3	36.5	36.6	37.3	06 15	40.8	01 30	35.8	5.0	17
36.6	36.6	36.6	36.6	36.5	36.3	36.3	36.5	36.7	37.3	05 55	40.7	02 10	35.3	5.4	18
36.5	36.5	36.4	35.7	35.9	36.1	36.1	36.4	36.4	36.8	07 24	39.9	02 50	35.3	4.6	19
36.5	36.5	36.6	36.5	36.5	36.5	36.5	36.5	36.6	37.2	06 55	40.6	00 58	35.2	5.4	20
36.2	36.4	36.5	36.4	36.4	36.4	36.5	36.6	36.5	37.0	06 45	40.3	00 54	35.5	4.8	21
35.1	35.1	35.0	34.7	34.8	35.2	35.1	35.0	34.4	36.2	05 42	41.0	18 25	34.5	6.5	22††
33.7	33.6	33.6	33.7	33.8	34.5	35.1	35.1	35.2	34.4	02 58	35.7	03 30	32.7	3.0	23††
32.3	32.2	33.0	33.6	33.7	33.6	33.6	33.8	33.8	34.2	07 33	38.6	10 33	30.9	7.7	24††
34.9	35.0	35.0	35.0	35.0	34.9	34.9	35.0	35.0	35.4	04 54	38.1	00 35	34.5	3.6	25
35.3	35.1	35.0	34.9	35.0	35.0	35.0	35.1	35.4	35.5	05 50	38.1	01 00	34.7	3.4	26
36.0	36.1	35.4	35.0	33.6	34.3	34.9	35.1	35.3	35.4	06 45	36.7	19 25	33.5	3.2	27††
35.1	34.9	34.9	34.9	33.7	34.6	35.0	35.4	35.8	35.6	06 54	38.2	18 55	33.6	4.6	28††
35.3	35.3	35.3	35.4	35.3	35.1	35.6	35.4	36.0	35.6	05 12	36.7	08 15	35.0	1.7	29
35.7	35.6	35.3	35.0	35.1	35.1	35.3	36.1	36.0	36.1	08 00	37.7	18 00	35.0	2.7	30
36.3	36.4	36.3	36.1	36.1	35.8	35.8	36.3	36.5	36.5	06 00	37.5	20 35	35.7	1.8	31
35.9	35.9	35.8	35.7	35.6	35.6	35.7	35.8	35.9	36.3	..	..	..	..	4.5	Mean
36.3	36.4	36.4	36.3	36.2	36.1	36.1	36.2	36.2	..	..	..	..	..	..	Mean†
34.4	34.4	34.4	34.4	33.9	34.4	34.7	34.9	34.9	..	..	..	..	..	..	Mean††

†Five International quiet days.

††Five International disturbed days.

Δ Loss of record; day omitted for means.

TABLE 5

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

November

2° plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	36.7	36.5	36.3	35.7	35.3	36.7	37.7	37.4	36.7	36.7	36.5	36.5	36.5	36.3	36.1
2††	36.5	36.5	36.7	36.3	36.3	37.5	38.1	37.9	37.1	36.8	36.8	36.7	36.5	36.4	36.3
3††	35.0	35.1	36.0	36.5	36.2	36.4	38.0	38.2	37.8	37.2	36.6	36.4	36.4	36.1	36.4
4	35.8	36.2	36.5	36.5	36.5	37.6	38.0	38.2	38.5	38.6	37.8	36.4	36.2	36.1	35.9
5†	36.4	36.2	36.4	36.2	36.4	37.6	37.9	37.8	37.6	37.5	37.6	37.1	36.9	36.5	36.5
6†	36.5	36.8	36.8	36.6	36.6	37.8	38.0	38.0	37.6	37.6	37.3	36.9	36.9	36.6	36.5
7	37.1	37.1	37.5	37.1	36.6	37.8	38.6	38.3	38.2	37.8	36.9	36.6	37.3	36.6	36.5
8†	37.1	37.3	37.5	36.9	36.9	37.8	38.0	38.2	38.3	37.9	37.8	37.8	37.5	37.3	36.6
9	37.5	37.6	37.8	37.3	37.6	38.1	38.3	38.4	38.4	38.1	38.4	38.1	38.0	37.7	37.0
10††	38.0	39.0	39.4	39.3	39.0	38.7	38.1	38.1	37.7	37.6	36.7	36.7	36.9	36.7	36.6
11††	36.6	37.4	38.6	38.4	39.5	39.5	37.4	36.6	36.5	36.5	36.2	36.6	37.0	36.6	36.5
12	36.7	37.6	37.7	37.3	37.9	38.1	38.7	38.1	37.3	36.6	36.6	36.6	37.2	36.6	36.7
13	36.7	36.7	37.2	37.0	38.0	38.5	38.9	38.1	36.7	36.3	36.1	36.6	36.8	36.7	36.6
14	36.8	36.7	37.1	37.8	38.2	39.4	39.2	38.0	37.0	36.8	36.7	37.1	37.4	37.0	36.7
15	37.1	37.7	39.1	38.8	39.2	39.4	39.5	38.1	36.1	35.4	36.3	36.3	36.4	36.4	36.3
16	36.8	36.8	37.8	39.4	39.8	40.1	39.5	38.8	38.1	38.0	37.0	36.7	36.7	36.3	36.4
17	37.1	38.0	39.2	39.2	38.9	38.6	38.3	38.2	37.5	36.8	36.4	36.4	36.4	36.5	36.4
18	37.1	37.2	37.2	36.9	36.8	37.1	38.3	39.3	38.5	38.3	37.4	36.8	36.7	36.5	36.4
19	36.9	37.4	37.2	36.9	35.7	35.8	36.9	36.9	36.4	35.7	36.4	36.5	36.9	36.9	36.5
20	37.4	37.8	38.1	37.4	36.8	37.2	38.1	37.8	37.2	36.8	36.4	36.5	36.9	37.1	36.9
21	38.2	38.3	39.5	39.6	39.6	39.6	39.8	39.7	39.0	38.4	37.9	37.7	38.0	37.7	37.0
22†	38.3	38.4	39.3	39.7	39.3	39.0	38.7	38.7	37.6	35.9	36.2	36.5	37.3	37.2	37.0
23	38.3	38.3	39.4	39.7	39.7	38.7	38.4	38.3	37.7	37.0	37.3	37.0	36.9	36.8	36.6
24	37.9	38.3	38.4	38.2	37.9	37.2	37.0	37.5	36.9	35.6	35.6	36.5	36.8	36.5	36.2
25	38.2	38.3	39.0	39.9	40.2	40.8	41.1	39.7	38.3	37.7	38.1	38.5	37.8	37.1	37.1
26	37.1	37.7	38.3	38.0	38.1	37.3	37.0	37.1	37.3	37.0	36.7	37.0	37.1	37.0	36.6
27	37.1	37.8	38.5	38.5	38.5	38.4	38.4	39.4	38.4	37.0	36.9	36.9	37.1	37.0	36.9
28††	37.1	37.7	38.4	38.4	38.5	38.4	40.6	39.8	39.7	38.1	37.1	37.0	36.9	36.7	36.0
29	37.4	38.3	38.5	38.8	39.7	40.9	40.9	40.2	38.5	37.0	36.7	36.9	37.0	36.7	36.0
30†	37.1	37.1	37.1	37.0	37.1	38.5	39.4	38.5	38.3	37.1	36.6	36.9	37.1	37.0	36.9
Mean	37.1	37.4	37.9	37.8	37.9	38.3	38.6	38.3	37.7	37.1	36.9	36.9	37.0	36.8	36.5
Mean†	37.1	37.2	37.4	37.3	37.3	38.1	38.4	38.2	37.9	37.2	37.1	37.0	37.1	36.9	36.7
Mean††	36.6	37.1	37.8	37.8	37.9	37.8	38.4	38.1	37.8	37.2	36.7	36.7	36.7	36.5	36.4

†Five international quiet days.

††Five international disturbed days.

△Loss of record; day omitted for means.

TABLE 5

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

November

2° plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
										H. M.		H. M.			
36.3	36.4	36.3	36.0	36.1	36.1	36.1	36.3	36.4	36.4	06 00	37.8	03 30	36.1	1.7	1
36.1	35.3	34.6	34.7	35.1	35.1	35.1	35.0	35.0	36.2	06 00	38.2	17 45	34.3	3.9	2††
35.8	35.9	35.5	35.4	35.4	35.1	35.2	35.2	35.4	36.1	06 35	38.6	00 01	35.0	3.6	3††
36.1	36.2	36.2	36.2	36.1	35.9	36.1	36.1	36.2	36.7	08 50	38.7	00 01	35.8	2.9	4
36.5	36.5	36.4	36.4	36.2	36.2	36.4	36.4	36.5	36.8	05 50	38.0	00 50	36.1	1.9	5†
36.5	36.6	36.6	36.5	36.4	36.5	36.5	36.5	36.8	36.9	06 15	38.2	19 00	36.4	1.8	6†
36.4	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.8	37.0	06 12	39.0	15 00	36.4	2.6	7
36.6	36.6	36.5	36.5	36.5	36.6	36.6	36.8	37.3	37.2	07 02	38.9	17 00	36.5	2.4	8†
37.2	37.3	37.3	37.0	37.0	37.3	37.6	37.9	38.0	37.7	07 20	38.7	14 00	37.0	1.7	9
36.6	36.6	36.5	35.9	35.5	35.6	35.9	36.0	36.6	37.2	02 00	39.4	18 55	35.3	4.1	10††
36.6	36.5	36.3	36.3	36.2	36.2	36.3	36.6	36.7	37.0	04 33	40.5	20 30	35.9	4.6	11††
36.9	36.7	36.6	36.6	36.3	36.5	36.0	35.9	36.5	37.0	06 15	39.0	22 00	35.9	3.1	12
36.7	36.7	36.7	36.7	36.7	36.6	36.6	36.7	36.8	37.0	05 15	39.5	09 15	35.9	3.6	13
36.8	36.8	36.8	36.7	36.7	36.7	36.7	36.7	36.7	37.2	05 00	39.5	01 10	36.6	2.9	14
36.6	36.7	36.7	36.7	36.6	36.4	36.4	36.6	36.7	37.1	05 40	39.8	08 35	35.3	4.5	15
36.4	36.7	36.7	36.7	36.6	36.7	36.8	37.2	37.1	37.0	05 20	40.9	13 15	36.1	4.8	16
36.7	36.7	36.7	36.7	36.7	36.8	36.8	36.8	37.1	37.3	02 30	39.5	10 00	36.4	3.1	17
36.4	36.2	36.5	36.5	36.4	36.5	36.7	36.8	36.9	37.1	06 45	39.5	16 00	36.2	3.3	18
36.5	36.7	36.8	36.8	36.8	36.9	36.9	36.9	37.1	36.7	01 00	37.5	08 30	35.5	2.0	19
37.1	36.9	37.1	37.1	37.4	37.5	37.8	37.9	38.1	37.3	01 45	38.2	10 00	36.2	2.0	20
37.0	37.2	37.2	37.2	37.3	37.6	37.7	37.9	38.0	38.0	06 00	39.8	14 00	37.0	2.8	21
37.2	37.0	37.0	37.2	37.2	37.2	37.2	37.3	37.9	37.7	03 00	39.7	09 15	35.6	4.1	22†
36.9	37.0	37.0	36.9	37.2	37.5	37.7	38.0	37.9	37.8	03 20	39.8	13 48	36.3	3.5	23
36.5	36.8	36.9	37.0	37.0	37.2	37.2	37.5	37.6	37.1	01 23	38.6	09 46	35.5	3.1	24
36.9	36.3	36.9	36.9	36.4	36.6	36.6	37.0	37.1	38.0	05 45	41.2	16 00	36.2	5.0	25
36.7	36.9	36.7	36.7	36.9	36.9	36.9	36.9	37.0	37.1	02 00	38.3	14 00	36.6	1.7	26
36.9	36.9	36.9	37.0	36.9	36.7	36.4	36.6	36.9	37.0	07 00	39.5	21 18	36.3	3.2	27
36.9	36.9	37.0	37.1	37.1	37.1	37.1	37.4	37.6	37.7	06 40	41.1	13 20	35.8	5.5	28††
36.2	36.7	36.9	37.0	37.0	37.0	36.9	37.0	37.0	37.7	06 25	41.1	14 00	36.0	5.1	29
36.9	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.3	06 05	39.7	10 00	36.6	3.1	30†
36.6	36.6	36.6	36.6	36.6	36.6	36.7	36.8	37.0	37.2					3.3	Mean
36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.8	37.1							Mean†
36.4	36.2	36.0	35.9	35.9	35.8	35.9	36.0	36.3							Mean††

† Five international quiet days.

†† Five international disturbed days.

△ Loss of record; day omitted for means.

TABLE 6

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

December

2° plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1†	37.1	37.3	37.8	38.3	38.3	38.5	39.5	39.4	38.3	37.0	35.9	35.9	36.7	36.9	36.9
2	37.4	37.0	37.3	37.6	38.1	38.7	39.4	38.7	37.4	36.7	35.9	35.5	36.2	36.9	36.6
3	36.6	37.1	38.4	38.7	39.2	39.4	39.8	39.8	39.1	37.1	36.7	37.0	37.3	37.1	36.9
4††	37.1	37.1	37.0	36.9	38.0	38.3	38.3	39.0	38.1	35.6	34.2	34.3	35.3	34.6	34.2
5††	34.1	36.6	39.0	40.5	40.8	40.8	39.9	38.1	35.9	34.5	34.1	34.3	35.0	35.5	35.6
6	35.7	35.7	37.0	37.4	37.0	36.9	36.9	36.9	35.7	35.6	35.6	36.3	37.0	36.9	36.4
7†	37.0	37.4	38.4	38.4	39.0	38.4	38.4	38.6	38.2	37.2	37.0	37.9	37.2	37.0	36.9
8	37.2	37.0	37.7	37.2	37.3	38.2	38.9	39.0	37.6	37.5	37.2	37.0	37.2	37.2	37.0
9	37.3	37.7	38.3	38.5	38.1	38.2	38.2	38.5	36.9	37.4	37.2	37.1	37.6	37.2	37.1
10†	37.1	37.8	38.2	38.3	38.2	38.9	39.6	39.3	38.3	38.2	37.9	37.9	38.1	37.6	36.8
11	37.6	37.9	38.2	38.5	38.5	39.1	39.2	39.5	39.2	38.1	37.7	37.3	37.7	37.7	37.0
12†	37.5	37.8	38.9	39.4	39.4	39.1	38.2	38.1	37.5	36.7	36.6	36.7	37.0	37.0	37.0
13††	38.0	38.0	37.8	37.0	36.7	37.9	38.1	38.8	38.0	36.7	36.7	36.7	37.3	37.2	36.3
14	36.0	36.5	38.3	38.8	38.8	37.9	37.9	36.7	36.0	35.5	35.8	36.2	36.6	36.2	36.0
15	36.6	37.4	38.4	39.2	38.2	38.0	38.2	38.6	38.0	37.2	36.6	36.2	36.4	36.5	36.4
16	37.6	38.0	38.6	38.8	37.4	38.9	38.8	39.1	37.9	36.4	36.0	36.3	37.0	35.8	36.0
17††	37.9	37.9	37.9	37.8	37.8	37.8	37.7	37.5	36.7	36.7	36.3	36.3	36.7	36.7	36.5
18††	37.7	38.2	38.9	36.7	35.6	36.0	36.6	37.7	37.6	37.1	36.3	36.3	36.4	36.3	35.9
19	36.0	35.9	36.4	36.1	34.7	35.6	36.1	36.2	36.3	36.3	36.2	36.3	35.9	35.8	35.9
20	36.9	37.3	37.6	37.6	37.3	36.5	36.6	37.3	37.6	37.7	37.6	36.8	36.5	36.2	36.1
21	37.5	37.6	38.0	37.6	37.4	36.5	36.9	37.4	36.4	36.4	36.2	36.0	36.4	36.2	35.8
22	37.1	37.1	36.9	36.7	36.7	36.4	37.3	37.5	37.4	37.1	37.1	37.4	37.4	36.8	36.1
23	37.1	37.3	37.3	37.2	37.4	37.7	38.3	38.7	37.9	36.7	36.3	36.2	36.2	36.5	35.9
24	36.2	36.5	36.7	36.7	36.7	36.9	37.3	37.3	37.2	37.2	37.0	37.0	37.3	36.9	35.9
25†	36.6	37.2	37.7	37.3	37.1	37.6	38.9	39.6	38.7	37.2	36.1	36.1	36.2	36.4	36.9
26	37.6	37.5	37.3	37.0	37.0	37.1	37.9	39.1	38.6	38.1	37.4	37.0	36.8	37.0	36.8
27	36.1	36.3	36.7	36.6	36.9	36.7	36.7	37.0	37.3	37.1	37.0	36.6	35.9	36.0	35.7
28	36.3	36.4	38.0	36.3	36.1	36.8	37.0	38.2	38.2	37.9	37.2	36.8	36.5	36.6	36.1
29	35.8	36.3	37.0	36.9	37.6	38.3	38.1	38.2	38.2	36.8	36.1	35.7	36.1	36.4	35.7
30	35.5	36.4	36.5	36.5	36.9	37.1	38.5	38.2	37.2	36.7	35.4	35.5	36.5	36.8	36.0
31	36.5	36.7	36.4	36.1	35.7	36.8	38.1	38.4	37.0	37.0	37.4	37.4	37.4	36.8	36.3
Mean	36.8	37.1	37.7	37.6	37.5	37.8	38.1	38.3	37.6	36.9	36.5	36.5	36.7	36.6	36.3
Mean†	37.1	37.5	38.2	38.3	38.4	38.5	38.9	39.0	38.2	37.3	36.5	36.9	37.0	37.0	36.9
Mean††	37.0	37.6	38.1	37.8	37.8	38.2	38.1	38.2	37.3	36.1	35.5	35.6	36.1	36.1	35.7

†Five international quiet days.

††Five international disturbed days.

△Loss of record; day omitted for means.

TABLE 6

Hourly values of Declination (Westerly), 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

December

2° plus tabular quantities

Hours G.M.T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
										H. M.		H. M.			
37.0	37.1	37.1	37.1	37.3	37.3	37.1	37.3	37.3	37.4	06 25	39.8	10 15	35.7	4.1	1†
35.9	36.0	36.0	35.7	35.6	35.5	35.3	35.3	36.6	36.7	06 00	39.8	22 58	35.2	4.6	2
37.0	37.1	37.3	37.1	37.1	37.1	37.1	36.3	36.3	37.6	07 28	40.1	09 34	36.6	3.5	3
34.3	33.8	33.8	33.8	34.2	33.6	33.5	32.9	33.6	35.5	06 53	39.7	22 25	32.5	7.2	4†
35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.7	36.6	04 42	41.1	00 01	34.1	7.0	5†
36.3	36.3	36.0	36.3	36.3	36.3	36.7	36.9	37.0	36.5	02 51	37.7	09 19	35.5	2.2	6
37.0	37.0	36.9	36.9	36.8	36.8	36.8	36.8	36.9	37.5	03 48	39.4	19 00	36.8	2.6	7†
37.0	37.0	36.9	36.9	36.8	36.8	36.5	36.6	36.9	37.3	06 30	39.7	21 15	36.2	3.5	8
37.2	37.1	37.1	36.9	36.8	36.8	36.8	37.1	37.2	37.4	06 40	39.3	19 00	36.8	2.5	9
36.8	36.8	36.9	36.9	37.1	37.1	37.2	37.2	37.4	37.7	06 30	39.7	14 00	36.8	2.9	10†
37.0	37.1	37.3	37.1	37.1	37.1	36.8	36.7	36.3	37.7	06 45	39.6	22 00	36.7	2.9	11
37.1	37.4	37.5	37.5	37.4	37.1	37.0	37.3	37.7	37.6	02 35	39.5	10 15	36.4	3.1	12†
36.2	36.0	35.8	34.6	34.8	33.9	33.8	34.8	35.2	36.5	06 30	39.3	20 55	33.7	5.6	13††
35.6	35.8	36.3	36.5	36.5	35.9	35.5	35.5	35.8	36.5	03 15	39.4	09 00	35.5	3.9	14
36.5	36.6	36.9	36.9	36.6	36.8	37.1	37.3	37.6	37.2	03 00	39.4	11 00	36.1	3.3	15
36.1	36.4	36.4	36.5	37.1	37.2	37.2	37.5	37.7	37.3	05 07	39.9	14 00	35.3	4.6	16
36.5	37.0	37.1	36.3	37.0	36.1	37.1	37.5	37.1	37.1	00 45	38.2	19 50	36.0	2.2	17††
35.9	36.0	35.9	35.3	35.0	35.2	35.0	35.0	35.0	36.3	02 00	39.2	22 10	34.9	4.3	18††
35.8	35.6	36.1	36.1	36.2	36.3	36.3	36.6	36.6	36.1	10 32	36.9	01 08	35.6	1.3	19
36.3	36.3	36.3	36.3	36.3	36.5	36.8	36.9	37.2	36.9	08 33	37.9	14 08	35.9	2.0	20
35.8	35.8	36.0	36.1	36.1	36.2	36.4	36.7	36.8	36.6	02 06	38.2	15 15	35.7	2.5	21
36.0	36.3	36.3	36.4	36.4	36.4	36.8	37.0	36.7	36.8	06 16	37.8	15 00	36.0	1.8	22
35.8	36.2	36.2	36.2	36.2	35.9	36.2	36.0	36.0	36.7	07 05	39.1	15 00	35.8	3.3	23
36.3	36.6	36.5	36.3	36.5	36.3	36.3	36.5	36.5	36.7	06 25	37.4	14 00	35.9	1.5	24
36.1	36.5	36.5	36.5	36.5	36.5	36.9	37.1	37.1	37.1	06 45	39.7	14 00	35.9	3.8	25†
36.0	36.3	36.0	35.8	36.1	36.0	36.0	36.1	36.1	36.9	07 15	39.3	18 00	35.8	3.5	26
35.6	35.9	35.9	35.7	35.7	35.9	35.9	36.2	36.0	36.3	08 03	37.7	15 00	35.6	2.1	27
35.9	35.9	36.3	36.1	36.1	36.1	35.9	36.2	35.6	36.6	07 02	38.3	23 00	35.5	2.8	28
35.7	36.1	36.1	36.1	36.2	35.7	35.4	35.5	35.4	36.5	05 10	38.5	22 45	35.3	3.2	29
36.0	36.0	36.1	36.1	36.1	36.2	36.5	36.4	36.4	36.5	06 15	38.9	00 01	35.5	3.4	30
36.0	36.3	36.4	36.6	36.4	36.7	36.7	36.6	36.7	36.8	06 45	38.8	03 30	35.6	3.2	31
36.2	36.3	36.4	36.3	36.3	36.2	36.3	36.4	36.5	36.9					3.4	Mean
36.8	37.0	37.0	37.0	37.0	37.0	37.0	37.1	37.3							Mean†
35.7	35.7	35.7	35.2	35.4	34.9	35.1	35.2	35.4							Mean††

†Five international quiet days.

††Five international disturbed days.

△Loss of record; day omitted for means.

TABLE 7

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

July
39,000γ plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1	479	482	485	520	538	560	574	570	578	562	539	510	489	489	483
2†	485	497	518	543	573	597	599	590	584	566	542	529	518	515	508
3	493	501	488	535	564	593	622	630	617	587	569	533	515	511	509
4	502	516	525	540	560	594	616	646	619	576	513	516	504	504	497
5	491	500	510	544	577	590	597	586	565	545	537	517	512	512	499
6†	511	517	534	550	565	615	630	612	597	566	547	534	528	525	516
7	509	521	535	560	595	628	641	643	628	599	570	547	543	543	533
8††	505	513	536	559	597	630	656	666	687	660	611	516	397	403	413
9††	162	211	256	284	302	309	295	295	303	298	329	328	321	318	301
10	413	400	411	450	491	511	548	551	533	516	493	469	455	444	442
11	444	443	446	476	521	565	596	599	583	557	531	495	476	453	456
12	476	485	508	535	547	554	582	596	567	537	504	490	481	475	469
13	477	479	484	509	567	623	613	603	573	542	518	496	482	474	471
14	493	496	500	523	538	559	592	612	615	610	547	513	483	478	474
15†	478	473	474	492	527	566	602	628	612	585	555	521	494	487	485
16†	482	489	494	514	546	575	599	605	591	566	535	513	505	499	492
17	487	499	512	554	589	640	621	598	580	569	508	496	492	494	493
18††	483	494	508	536	560	574	634	603	577	546	537	518	489	489	486
19	485	493	502	534	562	590	621	639	565	536	515	500	491	495	496
20	482	487	479	492	513	589	593	627	594	565	539	511	484	468	469
21††	486	482	484	489	554	567	623	603	580	555	544	513	505	505	501
22	473	471	474	493	506	524	551	552	565	565	549	506	494	509	490
23†	490	493	505	525	551	574	595	603	606	598	576	548	519	508	503
24	493	492	496	504	547	581	603	600	588	571	557	541	534	519	515
25	499	511	519	552	588	606	643	628	585	564	524	540	464	477	477
26	467	468	471	510	551	593	611	627	597	573	543	530	512	503	497
27††	487	491	533	565	605	662	657	644	605	550	536	526	487	463	454
28	454	465	477	478	537	581	605	624	604	590	567	539	525	517	502
29	500	502	520	554	596	626	642	650	630	604	566	531	520	523	520
30	504	566	524	550	584	609	635	616	604	587	571	552	534	523	509
31	495	503	526	560	604	648	652	635	611	585	543	509	499	500	499
Mean	474	480	491	517	550	582	602	603	585	562	536	512	492	488	483
Mean†	489	494	505	525	552	585	605	608	598	576	551	529	513	507	501
Mean††	424	438	463	487	524	548	573	562	550	522	506	480	440	456	431

† Five international quiet days.

†† Five international disturbed days.

Δ Loss of record; day omitted for means.

TABLE 7

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

July

39.0007 plus tabular quantities

Hours G.M.T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	H. M.	Y	H. M.	Y	Y	
479	475	475	479	481	483	488	486	484	508	06 23	597	16 26	473	124	1
503	500	499	501	500	501	497	493	494	527	06 15	613	00 01	484	129	2†
502	499	485	480	485	495	495	495	497	529	06 30	640	18 10	477	163	3
485	483	474	476	474	482	480	483	492	523	07 25	663	17 04	469	194	4
496	501	501	501	507	508	508	500	516	525	06 06	601	00 01	489	112	5
511	511	511	511	514	514	514	514	510	540	06 11	637	23 45	508	129	6†
521	524	534	533	517	516	515	506	504	553	07 48	652	23 04	501	151	7
348	218	164	151	70	52	101	110	145	405	07 58	786	19 24	—4	790	8††
325	349	382	382	385	390	399	405	401	322	23 58	419	00 01	161	258	9††
442	444	444	444	448	447	444	445	450	464	06 56	572	01 50	398	174	10
449	456	456	461	466	470	466	470	466	492	06 27	620	00 38	441	179	11
472	475	472	462	472	481	474	474	476	503	06 48	617	18 02	457	160	12
471	475	486	478	479	483	483	488	496	510	05 18	638	14 18	469	166	13
472	478	470	476	476	474	474	474	478	513	07 34	625	17 08	460	156	14
481	478	476	473	474	477	480	484	482	512	06 45	634	01 18	471	163	15†
486	486	483	482	479	480	479	479	484	514	06 41	608	18 50	476	132	16†
493	494	493	491	488	486	484	484	482	522	04 34	658	23 26	481	177	17
479	483	480	475	472	470	485	485	480	514	06 02	660	18 32	465	192	18††
492	495	493	493	491	492	492	479	483	518	06 38	655	22 40	478	179	19
473	481	478	479	482	486	484	483	490	509	07 06	638	12 57	466	172	20
497	497	528	495	473	482	479	476	484	517	06 11	650	21 19	447	203	21††
482	491	491	491	492	490	493	490	490	505	08 19	584	02 04	462	122	22
501	500	500	500	499	499	498	495	493	528	08 36	611	00 02	488	123	23†
513	509	502	491	490	487	496	505	499	526	06 30	611	20 00	484	128	24
468	469	469	467	477	472	470	468	473	517	06 23	672	17 51	456	216	25
490	487	486	486	486	487	491	488	488	518	06 34	640	00 31	464	176	26
457	454	444	436	427	427	430	437	445	509	05 27	685	19 18	420	265	27††
497	493	493	494	498	503	508	508	503	523	06 55	635	00 01	452	183	28
510	507	505	505	514	510	506	502	502	544	06 40	652	00 22	497	155	29
503	499	491	488	486	492	489	494	494	535	05 57	650	21 18	463	167	30
497	503	485	497	499	500	498	491	497	535	05 40	669	17 02	480	189	31
477	475	473	470	468	469	471	471	473	509					188	Mean
496	495	494	493	493	494	494	493	492							Mean†
421	400	400	388	365	364	379	383	391							Mean††

†Five international quiet days.

††Five international disturbed days.

△Loss of record; day omitted for means.

TABLE 8

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

August

39,000γ plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1	500	507	525	558	582	603	613	609	600	597	586	537	491	501	499
2	493	506	531	566	593	625	619	628	611	570	543	530	512	503	494
3	508	506	508	532	573	602	619	622	609	583	547	507	492	503	505
4	494	503	523	552	579	620	622	618	616	601	586	570	540	521	512
5†	503	502	511	541	566	598	617	643	652	628	596	558	524	520	517
6†	501	506	523	550	595	645	673	683	678	652	613	578	543	532	528
7	513	520	526	554	579	623	665	686	675	631	571	525	497	491	506
8†	503	511	531	565	605	641	648	640	613	595	569	544	532	531	520
9	503	509	525	573	626	645	664	664	643	651	589	559	543	536	529
10	517	519	528	557	591	638	657	622	578	571	560	530	534	536	511
11	526	532	545	564	592	628	615	613	583	561	532	538	545	513	506
12	514	521	541	578	596	640	624	592	564	545	534	528	529	530	523
13	517	522	542	577	637	676	687	627	610	600	562	517	512	510	511
14	499	508	529	557	609	656	674	669	644	607	577	552	539	530	521
15	508	508	523	571	628	640	674	656	607	604	575	547	535	534	530
16	513	523	541	565	599	729	726	708	677	640	599	558	539	532	520
17††	506	515	537	564	604	636	680	728	680	593	546	510	509	511	497
18††	419	453	480	528	572	598	537	561	550	520	502	500	494	476	468
19	462	465	477	522	572	507	624	625	617	599	564	535	515	500	491
20†	494	496	497	521	574	608	643	643	630	612	587	557	534	521	512
21	505	508	522	559	600	617	626	620	607	596	585	565	553	537	525
22††	514	516	529	576	611	585	608	507	571	585	578	557	522	500	518
23	492	499	517	548	605	603	632	613	603	591	576	554	536	520	508
24††	496	504	540	515	506	465	498	557	570	534	513	478	531	406	431
25	461	455	474	488	544	565	591	585	560	557	540	514	496	482	469
26	475	480	493	526	595	607	624	617	577	537	508	474	457	460	463
27††	475	482	498	560	621	655	570	627	490	457	437	456	453	441	428
28	461	469	489	528	576	610	627	621	607	584	549	528	510	491	484
29	465	472	499	537	579	630	628	626	628	596	553	514	494	493	485
30	481	489	519	561	605	622	662	672	646	608	584	550	526	516	502
31	498	502	517	554	592	647	672	666	646	597	562	533	521	513	499
Mean	494	500	517	550	591	621	633	631	611	587	559	532	587	506	500
Mean†	499	504	517	546	584	622	641	645	638	618	590	561	535	525	518
Mean††	482	494	517	549	583	588	579	596	572	538	515	500	502	467	468

†Five international quiet days.

††Five international disturbed days.

ΔLoss of record; day omitted for means.

TABLE 8

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

August

39,000γ plus tabular quantities

Hours G.M.T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
500	498	494	494	496	492	491	493	493	532	05 57	622	12 20	487	135	1
496	494	493	500	503	502	501	501	506	534	05 23	639	16 36	490	149	2
502	497	490	490	489	492	494	494	492	527	06 55	624	18 32	488	136	3
510	508	508	506	505	506	505	504	504	542	06 26	630	00 01	493	137	4†
506	504	503	508	507	508	508	506	501	543	07 32	656	22 30	499	157	5†
525	524	525	524	525	523	522	520	516	563	06 46	686	00 04	500	186	6†
508	506	504	503	500	501	506	504	500	546	06 58	691	12 53	483	208	7
506	507	510	510	511	511	510	511	507	547	06 30	653	15 34	502	151	8†
526	521	517	519	518	516	509	511	514	559	06 30	674	00 01	501	173	9
506	503	506	508	510	508	515	513	517	543	06 06	669	16 26	498	171	10
502	502	502	501	511	515	513	515	514	540	04 36	633	18 10	500	133	11
519	519	520	522	527	527	524	519	515	544	04 38	656	00 28	511	145	12
509	508	507	506	503	503	503	501	498	548	06 08	703	23 30	497	206	13
517	519	519	514	511	508	506	509	511	554	06 15	679	00 18	497	182	14
521	516	517	514	514	512	514	514	514	553	06 21	682	00 34	506	176	15
511	503	491	499	503	503	505	506	506	562	05 12	761	17 16	487	274	16
500	499	481	450	395	418	396	420	404	544	06 32	778	20 56	384	394	17††
464	464	465	466	468	471	471	470	468	494	04 40	625	00 02	417	208	18††
491	496	500	501	503	500	496	496	496	527	06 25	641	00 36	461	180	19
510	511	512	507	505	505	505	502	502	541	07 34	653	02 00	490	163	20†
523	523	518	519	518	519	513	509	516	549	06 19	629	00 20	504	125	21
491	483	478	478	479	485	487	488	489	526	03 58	645	06 54	471	174	22††
505	504	501	497	498	498	501	501	499	538	05 50	658	00 34	490	168	23
441	433	443	455	454	460	460	460	459	484	04 45	614	05 15	261	353	24††
469	471	471	472	475	475	475	477	475	502	06 54	606	01 07	448	158	25
466	466	466	467	474	475	473	475	473	505	06 30	630	11 52	454	176	26
429	429	421	434	441	461	454	453	461	485	05 04	678	17 42	417	261	27††
465	463	464	460	472	462	465	476	471	514	06 19	636	18 02	454	182	28
483	483	483	484	489	488	487	485	484	524	06 06	652	00 20	462	190	29
501	500	499	497	497	498	502	498	499	543	07 11	680	00 06	479	201	30
495	493	485	492	496	497	501	499	499	541	06 04	678	17 00	483	195	31
497	495	493	493	493	495	494	495	494	533	..	..	..	..	189	Mean
511	511	512	511	511	511	510	509	506	..	..	..	..	..	..	Mean†
465	462	458	457	447	459	454	458	456	..	..	..	..	..	..	Mean††

†Five international quiet days.

††Five international disturbed days.

Δ Loss of record; for day omitted for means.

TABLE 9

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

September:

39,000 plus tabular quantities

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1	498	497	510	546	606	652	679	671	646	602	566	545	524	517	508
2	506	508	528	566	601	633	627	604	579	568	562	556	541	523	518
3††	501	500	523	573	645	697	707	682	645	632	539	505	510	492	423
4††	405	399	422	487	525	563	563	560	558	560	537	522	511	497	475
5††	265	241	251	318	379	361	418	417	442	418	402	364	357	354	343
6	395	391	398	431	483	533	540	551	539	516	496	479	468	428	452
7	454	458	481	528	574	623	618	609	575	557	531	510	499	493	481
8	463	453	472	505	556	578	603	599	582	561	533	509	507	504	493
9	499	488	490	536	586	616	630	609	580	558	533	513	514	504	471
10	477	478	509	554	610	641	638	615	584	548	521	515	510	496	483
11	493	488	501	547	613	639	634	613	586	572	546	534	532	521	511
12	494	500	525	539	613	648	663	648	608	572	551	537	537	528	517
13†	496	493	516	560	607	655	688	682	647	607	581	562	549	534	554
14†	508	509	539	591	648	696	717	695	641	611	569	555	552	542	531
15	508	508	530	564	648	698	725	695	673	620	582	559	558	546	541
16††	505	509	530	575	666	663	647	635	641	614	602	576	562	548	512
17	459	466	489	533	570	590	591	570	543	515	507	509	407	490	489
18†	485	483	501	538	580	619	629	625	602	577	553	535	532	524	525
19	500	496	505	537	586	633	653	642	622	598	578	558	543	529	525
20	512	510	527	570	623	675	687	671	633	599	579	569	558	544	537
21†	515	516	535	583	641	678	686	648	606	573	558	555	556	544	535
22†	516	518	535	585	635	645	678	658	630	597	572	563	562	551	542
23	519	522	555	596	646	677	684	623	614	594	577	575	570	553	540
24	522	528	562	617	669	699	698	675	628	583	551	536	545	538	525
25††	523	531	539	581	684	726	624	538	441	399	395	397	342	339	322
26	439	446	438	502	530	545	553	510	486	469	472	458	448	426	420
27	464	472	499	542	566	587	577	563	553	542	525	513	502	487	475
28	482	488	523	582	621	634	616	606	580	552	541	526	520	503	495
29	498	498	519	568	628	695	699	669	635	586	557	540	538	527	521
30	504	502	519	561	618	680	683	658	632	593	583	558	527	496	485
Mean	480	480	499	544	599	633	640	618	591	563	540	524	516	504	491
Mean†	504	504	525	571	622	658	680	662	625	593	567	554	550	539	533
Mean††	440	436	453	507	580	602	592	566	545	525	495	473	456	446	415

†Five international quiet days.

††Five international disturbed days.

ΔLoss of records; day omitted for means.

TABLE 9

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

September

39,000γ plus tabular quantities

Hours G.M.T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
503	500	501	502	504	506	507	506	507	546	06 18	684	00 50	494	190	1
519	517	514	514	512	512	510	512	508	543	05 30	638	23 45	501	137	2
428	457	437	423	434	445	418	385	408	517	05 46	721	21 41	378	343	3††
351	263	285	194	170	196	191	180	255	400	08 54	586	20 25	109	477	4††
349	360	372	376	389	404	397	400	394	365	07 35	517	00 55	216	301	5††
451	451	451	452	455	458	456	456	454	467	06 30	554	01 30	387	167	6
461	441	438	438	443	467	456	449	455	502	05 16	640	16 20	435	205	7
490	488	489	488	489	489	490	483	468	513	06 15	616	01 02	450	166	8
456	464	471	471	473	477	479	475	486	516	06 07	654	14 56	452	202	9
486	492	493	493	492	490	490	488	488	525	05 52	649	00 58	474	175	10
502	498	497	497	495	496	497	499	498	534	04 51	647	02 08	475	172	11
513	509	506	503	501	501	501	502	502	542	05 14	669	00 01	492	177	12
521	519	517	515	514	512	510	514	512	557	06 07	693	00 40	492	201	13†
529	525	522	518	517	514	515	513	510	565	05 30	726	00 20	504	222	14††
538	543	533	524	518	534	532	523	512	571	05 41	735	00 26	492	243	15
506	503	475	460	436	449	466	475	469	545	04 26	708	19 15	429	279	16††
486	486	486	490	493	492	492	489	488	510	04 30	620	00 08	455	165	17
511	516	507	503	510	506	501	503	504	536	06 30	633	00 50	480	153	18†
521	521	521	521	520	515	516	518	515	549	06 08	657	00 48	493	164	19
533	532	531	526	524	521	521	516	518	563	05 30	703	00 41	506	197	20
531	528	526	525	524	520	526	524	520	561	06 02	692	00 54	513	179	21†
538	536	532	529	526	525	525	525	523	564	05 32	684	00 43	515	169	22†
534	527	523	523	522	525	524	523	521	565	05 52	698	00 34	514	184	23
519	514	510	508	512	516	520	520	519	563	05 12	710	17 35	506	204	24
304	338	333	366	374	382	414	409	423	447	04 15	771	15 05	287	484	25††
418	426	434	440	446	450	463	464	463	464	04 49	539	15 06	414	145	26
476	475	474	476	478	474	479	492	483	511	05 04	559	00 04	463	128	27
490	491	496	498	499	499	499	500	499	531	05 30	642	00 48	479	163	28
518	517	516	514	510	508	507	507	507	553	05 22	710	00 43	496	214	29
485	476	460	454	469	474	475	494	498	537	06 08	687	17 50	445	242	30
482	480	478	475	475	477	479	478	481	522	..	..	..	..	215	Mean
526	524	521	518	518	515	517	516	514	..	..	..	..	..	..	Mean†
388	384	380	364	361	363	377	370	390	..	..	..	..	..	..	Mean††

†Five international quiet days.

††Five international disturbed days.

ΔLoss of record; day omitted for means.

TABLE 10

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

39,000y plus tabular quantities

October

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	Y.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1	503	505	528	576	624	658	666	609	571	563	550	543	536	527	516
2	505	496	508	544	583	611	623	617	599	579	558	539	532	520	513
3	510	506	521	559	623	656	664	639	585	580	571	551	524	514	500
4†	495	504	526	559	589	639	662	640	612	599	579	562	547	529	517
5	508	519	527	572	636	675	675	656	625	602	583	569	549	535	528
6	515	513	531	577	622	650	666	650	623	592	573	567	556	540	521
7	528	532	556	589	651	674	674	631	596	562	540	533	532	521	518
8	514	518	532	563	599	611	648	616	585	566	544	538	538	528	523
9†	521	525	554	600	631	657	652	626	590	564	550	551	553	540	529
10†	523	528	560	606	652	680	697	678	640	604	577	566	565	554	545
11†	519	522	555	609	646	672	672	651	611	573	563	562	567	553	544
12†	527	532	562	606	667	707	719	698	627	614	589	580	571	558	549
13	529	527	547	600	650	709	726	677	639	591	543	539	544	527	519
14	525	523	543	585	670	725	751	714	659	610	574	561	564	557	548
15	529	522	555	618	678	713	720	703	653	601	575	561	559	549	542
16	531	526	548	589	650	688	684	627	614	600	587	573	562	547	536
17	531	527	546	599	656	699	671	641	630	619	604	586	572	555	547
18	531	528	538	575	630	688	696	682	668	630	613	586	564	549	540
19	528	531	555	590	634	679	708	697	665	630	613	578	561	545	544
20	519	519	529	559	594	622	635	630	624	615	603	592	573	552	544
21	538	539	574	600	608	629	649	643	632	619	598	574	552	536	531
22††	531	540	553	595	664	657	659	570	523	477	503	517	499	465	461
23††	467	479	510	550	541	528	504	460	448	439	429	441	439	417	405
24††	450	451	441	502	502	515	518	521	547	450	376	346	345	276	267
25	402	412	427	470	497	529	532	521	521	506	501	491	476	456	450
26	453	459	491	538	588	634	641	611	578	527	508	505	494	487	485
27††	479	485	505	532	544	579	571	581	561	551	546	534	523	512	502
28††	453	468	493	533	565	597	594	607	595	548	510	499	484	460	461
29	478	483	483	509	546	573	555	568	544	537	528	524	516	501	496
30	488	487	507	556	588	627	631	622	605	579	559	538	518	500	501
31	511	506	521	548	606	630	631	626	618	603	592	569	553	543	528
Mean	505	507	527	568	611	630	648	626	600	572	553	541	538	515	507
Mean†	517	522	551	596	637	671	680	659	616	591	572	564	561	547	537
Mean††	476	485	500	542	563	575	569	550	535	493	473	467	458	426	417

†Five international quiet days.

††Five international disturbed days.

ΔLoss of record; day omitted for means.

TABLE 10

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

October

39,000γ plus tabular quantities

Hours G.M.T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
513	511	508	506	507	499	502	502	505	543	05 27	700	20 02	495	205	1
508	505	507	506	505	505	502	503	512	537	05 40	632	01 26	490	142	2
493	472	456	477	475	484	494	493	494	535	06 34	683	17 00	452	231	3
512	515	515	514	513	513	516	521	516	550	06 00	680	00 08	493	187	4†
523	518	520	509	509	511	510	509	517	558	05 27	707	00 01	505	202	5
526	529	524	523	526	524	526	523	529	559	05 42	677	01 12	509	168	6
517	512	500	504	506	509	510	515	515	551	05 56	698	16 50	498	200	7
520	520	519	518	518	517	519	519	520	546	06 07	660	00 14	513	147	8
526	526	524	523	522	523	527	528	522	556	05 05	666	00 28	519	147	9†
541	535	528	528	531	529	528	526	526	573	06 02	700	00 26	522	178	10†
540	537	535	533	528	527	530	534	530	567	05 26	678	00 35	515	163	11†
547	544	541	540	540	535	536	540	535	582	05 40	721	00 22	526	195	12†
522	526	520	522	528	531	532	534	531	567	06 20	736	17 38	517	219	13
541	539	538	536	536	537	536	534	536	581	05 58	758	00 48	519	239	14
537	529	528	534	531	528	534	537	534	578	05 40	736	00 50	519	217	15
534	531	528	529	528	525	525	528	530	567	05 35	700	20 15	522	178	16
541	535	534	528	532	534	529	526	530	571	06 10	682	01 15	522	160	17
535	527	531	532	531	529	526	528	532	575	05 52	708	21 30	524	184	18
535	529	519	505	506	514	517	519	518	572	06 06	716	18 45	501	215	19
541	535	534	537	536	537	534	534	540	564	06 02	641	01 58	516	125	20
527	524	527	522	525	528	529	532	532	565	05 35	665	18 10	521	144	21
462	441	442	430	427	459	461	450	451	510	05 40	708	19 10	421	287	22††
389	378	380	382	399	430	435	456	447	448	02 54	566	16 58	375	191	23††
283	292	330	351	380	429	372	384	402	405	07 30	616	13 35	215	401	24††
447	450	431	450	451	451	453	452	449	469	06 43	540	00 22	401	139	25
476	459	455	455	461	470	476	477	480	509	05 43	661	16 30	452	209	26
503	499	472	457	390	387	439	446	437	502	04 52	527	19 26	375	212	27††
451	427	437	464	449	455	464	475	475	499	07 45	672	16 26	421	251	28††
490	492	486	493	492	496	509	493	490	512	04 56	585	02 16	466	119	29
486	482	493	480	483	490	489	512	512	531	06 06	642	18 18	474	168	30
529	525	520	519	519	517	520	524	528	554	04 28	646	16 18	499	147	31
503	498	497	497	496	501	503	505	506	540	.. ..	..	.. ..	..	193	Mean
533	531	529	528	527	525	527	530	526	..	.. ..	..	.. ..	..	..	Mean†
418	407	412	417	409	432	434	442	442	..	.. ..	..	.. ..	..	..	Mean††

†Five international quiet days.

††Five international disturbed days.

ΔLoss of record; day omitted for means.

TABLE II

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

November

39,000 plus tabular quantities

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	527	530	553	595	622	654	666	666	640	611	598	585	564	551	547
2††	523	524	541	572	613	651	666	669	652	630	595	579	562	535	501
3††	483	483	495	533	561	547	590	604	601	584	566	543	523	504	491
4	503	506	529	557	572	611	613	630	620	599	585	564	541	518	521
5†	515	525	545	560	577	590	600	602	596	584	571	559	533	538	534
6†	526	539	564	586	614	640	649	647	635	617	593	577	567	555	549
7†	536	540	555	579	598	608	622	611	610	596	585	570	559	535	501
8†	535	547	564	582	598	607	606	603	596	586	574	564	553	538	531
9	522	533	558	590	611	622	619	615	611	612	599	582	566	553	546
10††	551	565	590	613	640	645	637	614	595	598	571	535	539	532	523
11††	500	530	551	525	572	601	546	539	534	536	523	523	520	508	502
12	505	523	544	565	578	590	596	591	578	566	555	538	532	516	517
13	504	511	517	573	609	608	581	564	554	547	539	536	535	529	522
14	516	523	551	594	638	653	629	604	578	559	551	553	550	541	532
15	524	535	566	591	633	651	644	615	582	562	561	560	553	541	533
16	529	528	544	591	622	632	633	607	608	609	581	558	545	523	512
17	523	533	557	574	602	638	625	627	612	583	566	553	543	532	523
18	528	527	538	566	583	600	630	639	628	602	575	549	538	523	517
19	517	526	515	549	558	561	557	547	555	555	551	541	531	513	504
20	510	516	535	559	583	603	618	615	609	594	576	557	539	530	522
21	517	528	552	576	595	608	615	602	599	592	576	564	545	524	515
22†	516	526	541	562	577	581	581	586	603	595	592	572	550	528	530
23	529	533	556	585	617	628	641	635	615	597	574	565	536	513	501
24	515	530	550	569	579	585	591	591	592	538	521	513	501	478	487
25	513	524	545	559	591	596	597	582	586	588	592	580	554	536	516
26	479	487	501	518	541	554	558	562	560	548	536	526	515	499	490
27	501	516	542	564	581	579	555	574	579	560	539	521	519	510	499
28††	489	497	515	552	580	565	626	616	604	593	560	531	501	490	507
29	504	513	526	560	593	601	593	608	590	552	548	539	516	495	484
30†	500	510	530	565	572	605	615	607	590	571	560	551	565	526	523
Mean	515	524	542	569	594	607	610	606	596	582	568	553	541	524	516
Mean†	518	529	549	571	588	605	611	609	604	591	578	565	558	537	533
Mean††	509	520	525	559	593	602	613	608	597	588	563	542	533	514	505

†Five international quiet days.

††Five international disturbed days.

Δ Loss of record; day omitted for means.

TABLE II

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

November

39,000γ plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
553	542	533	526	524	522	526	530	528	570	07 10	671	00 28	526	145	1
466	431	401	434	474	481	481	483	482	539	06 36	673	17 08	392	281	2††
491	485	484	488	497	495	500	506	503	523	07 54	613	01 34	479	134	3††
521	520	520	520	514	513	519	517	512	547	06 58	632	00 54	500	132	4
534	530	529	528	528	526	526	526	523	550	05 53	605	00 01	515	90	5†
544	538	534	530	530	532	531	532	538	569	05 39	651	00 01	525	126	6†
512	517	525	526	526	529	529	532	535	556	06 10	626	15 30	509	117	7
525	520	517	516	517	519	521	521	521	553	06 50	608	17 45	515	93	8†
543	542	540	541	540	544	548	551	551	568	05 37	630	00 01	520	110	9
519	514	497	476	480	495	501	496	501	551	05 35	654	17 58	472	182	10††
501	498	495	499	501	501	503	503	504	521	05 15	616	17 00	494	122	11††
517	510	509	508	510	517	510	505	505	537	06 08	607	18 50	502	105	12
519	517	515	519	517	516	516	518	517	537	05 11	632	00 06	504	128	13
532	532	531	530	531	530	528	527	522	556	04 54	654	00 04	515	139	14
534	534	532	531	530	529	528	528	527	559	04 58	656	00 01	523	133	15
509	515	519	519	521	521	520	523	523	554	05 30	673	15 15	508	165	16
521	517	517	522	523	526	527	528	531	554	05 00	648	16 10	515	133	17
511	510	511	509	502	506	511	519	517	547	07 22	649	19 45	502	147	18
496	501	507	509	512	510	512	512	509	527	05 32	568	15 10	494	74	19
517	511	513	517	519	519	517	518	517	546	06 02	623	00 01	508	115	20
511	510	513	521	525	522	522	520	516	549	05 35	620	15 45	508	112	21
528	525	526	526	525	524	525	526	528	549	08 00	605	00 01	511	94	22†
511	511	504	506	513	516	515	512	512	552	05 46	647	13 48	491	156	23
490	496	498	501	502	504	513	516	515	527	06 23	597	13 06	474	123	24
494	481	475	479	455	454	455	463	472	529	05 30	607	19 30	448	159	25
486	481	478	484	499	501	499	496	499	512	06 38	568	17 08	473	95	26
491	481	487	504	496	491	487	485	487	523	04 19	588	11 15	477	111	27
516	511	513	513	507	500	500	504	507	533	06 38	664	12 50	484	180	28††
472	481	491	496	499	498	498	499	500	527	04 50	617	15 18	467	150	29
523	521	519	520	519	521	517	513	513	544	06 04	620	00 01	498	122	30†
513	509	508	510	511	512	513	513	514	544	.. ..	..	.. ..	..	132	Mean
531	527	525	524	524	524	524	524	525	..	.. ..	..	.. ..	..	..	Mean†
499	488	478	482	492	494	497	498	499	..	.. ..	..	.. ..	..	..	Mean††

†Five international quiet days.

††Five international disturbed days.

Δ Loss of record; day omitted for means.

TABLE 12

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

December

39,000γ plus tabular quantities

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1†	513	522	545	578	611	638	648	637	616	593	580	571	553	538	530
2	522	517	530	561	593	608	621	632	622	610	570	527	474	443	420
3	489	484	498	532	561	579	590	593	586	571	558	545	526	511	508
4††	506	527	533	549	590	617	581	595	604	543	477	467	449	430	407
5††	333	367	389	423	431	458	459	457	446	457	463	467	449	428	425
6	449	455	467	486	493	496	495	501	508	515	504	491	481	464	451
7†	473	484	504	526	558	572	558	559	560	556	549	538	518	504	501
8	498	500	514	536	565	585	597	605	600	596	574	548	523	514	502
9	508	504	498	520	545	564	574	597	516	529	535	534	524	513	515
10†	505	512	524	537	553	574	593	566	555	546	535	530	525	522	519
11	513	523	545	564	588	608	611	619	611	570	567	548	544	540	532
12†	522	526	534	547	570	584	591	598	595	588	567	552	541	534	528
13††	514	523	532	530	543	606	600	599	604	590	576	570	555	497	430
14	446	449	488	529	556	547	544	537	516	502	505	518	516	489	459
15	467	476	508	545	582	615	626	620	595	563	555	537	522	511	507
16	521	536	572	588	610	670	654	648	620	569	557	565	529	489	496
17††	528	529	542	554	589	621	631	627	600	570	532	528	522	513	514
18††	434	442	449	428	434	481	482	514	509	499	497	488	478	475	463
19	466	455	464	475	467	501	492	490	505	504	491	492	477	477	478
20	491	492	498	522	546	571	584	575	568	562	557	542	525	505	494
21	501	507	526	544	564	582	570	582	565	559	545	532	519	507	499
22	501	495	504	527	571	589	627	608	571	542	528	535	533	525	516
23	514	513	529	559	606	634	669	682	635	574	539	526	527	522	495
24	495	496	507	524	561	600	616	597	577	548	529	527	526	518	515
25†	515	522	541	561	594	628	654	659	639	601	579	558	540	528	520
26	546	537	530	540	566	600	635	654	631	594	575	561	543	521	506
27	510	508	505	523	571	580	585	590	595	579	553	512	491	495	501
28	509	512	526	544	576	622	630	628	619	588	565	542	532	524	516
29	500	496	505	524	554	606	607	616	617	587	557	540	535	526	516
30	506	505	513	555	591	646	688	674	627	575	540	537	534	525	521
31	506	510	513	534	570	615	628	607	573	554	545	541	539	532	529
Mean	494	498	511	531	558	587	595	596	580	559	542	531	518	504	494
Mean†	506	513	530	550	577	599	609	604	593	577	562	550	535	525	520
Mean††	463	478	489	497	517	557	551	558	553	532	509	504	491	469	448

†Five international quiet days.

††Five international disturbed days.

Δ Loss of record; day omitted for means.

TABLE 12

Hourly values of Horizontal Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

December

39,000γ plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
527	525	525	527	528	527	525	525	522	559	06 20	651	00 01	512	139	1†
414	428	439	433	440	451	452	493	494	512	07 00	647	14 42	405	242	2
510	513	514	512	511	507	505	510	509	530	06 26	604	00 58	480	124	3
353	318	309	306	365	326	313	317	348	451	05 06	650	18 10	304	346	4††
429	434	438	438	444	442	442	443	445	434	10 48	470	00 01	330	140	5††
442	438	442	454	458	466	467	466	475	473	09 00	522	16 30	435	87	6
502	502	500	498	498	500	499	497	497	520	05 24	580	00 01	472	108	7†
493	487	493	501	500	501	508	505	502	531	07 24	608	16 15	483	125	8
520	515	517	509	508	508	508	508	506	524	06 59	624	01 53	487	137	9
517	518	516	514	514	514	513	512	512	530	06 26	601	00 06	503	98	10†
530	526	524	525	522	518	509	510	528	549	06 45	629	22 04	503	126	11
526	525	524	524	519	522	515	512	512	544	07 06	602	21 40	509	93	12†
393	391	384	354	378	371	392	430	436	492	05 18	634	18 18	341	293	13††
442	443	443	447	456	452	449	459	464	486	04 50	576	16 58	436	140	14
498	485	494	504	502	502	509	511	517	531	05 52	639	00 01	465	174	15
491	495	496	504	520	517	516	521	524	530	05 06	714	12 55	482	232	16
513	516	504	485	474	457	471	459	450	530	05 45	696	23 59	427	209	17††
459	462	464	462	461	458	458	461	463	468	06 20	528	03 02	340	188	18††
468	477	477	478	484	491	498	494	494	483	04 50	522	01 06	443	79	19
499	501	504	492	494	496	506	499	498	522	05 43	596	00 30	486	110	20
492	494	495	499	501	514	509	507	506	526	05 08	600	15 00	491	109	21
514	514	515	513	515	523	519	522	518	534	06 13	642	01 22	488	154	22
492	507	501	513	506	499	507	504	496	544	07 02	693	14 28	479	214	23
517	520	516	515	519	523	523	515	517	533	05 56	620	00 20	493	127	24
521	521	520	521	521	521	529	532	534	557	06 54	662	00 01	514	148	25†
506	506	498	500	506	510	511	518	512	546	07 08	658	17 35	489	169	26
500	502	502	502	506	507	509	509	507	527	07 56	605	11 46	488	117	27
504	497	509	509	517	518	512	513	507	542	06 12	637	17 14	495	142	28
517	512	509	510	517	508	505	514	508	537	07 41	629	01 10	491	138	29
527	522	520	517	511	517	521	513	507	550	06 15	700	01 40	502	198	30
532	532	531	530	527	532	532	530	532	545	06 18	635	00 18	505	130	31
489	488	488	487	491	490	491	494	495	521	..	..	..	..	156	Mean
519	518	517	517	516	517	516	516	515	..	..	..	..	..	..	Mean†
429	424	420	409	424	411	415	422	428	..	..	..	..	..	..	Mean††

† Five international quiet days.

†† Five international disturbed days.

Δ Loss of record; day omitted for means.

TABLE 13

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

2,000 plus tabular quantities

July

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1	349	349	348	338	322	316	299	299	298	291	299	310	329	338	334
2†	347	345	340	339	331	321	320	321	328	334	334	330	326	331	333
3	345	354	353	351	341	333	328	321	322	329	334	330	330	330	331
4	347	351	346	345	339	331	314	297	286	293	300	306	323	334	330
5	345	346	344	350	343	339	343	339	349	321	322	327	328	329	330
6†	345	346	342	342	331	320	315	310	317	321	323	332	330	329	328
7	342	345	344	338	328	319	308	301	305	302	306	315	330	332	332
8††	343	346	342	335	329	319	309	304	314	320	330	324	290	314	324
9††	352	355	339	321	308	307	309	324	327	340	343	340	338	342	336
10	358	351	346	345	336	329	317	308	308	315	319	322	327	328	331
11	345	350	346	343	331	317	307	305	310	308	313	315	321	328	331
12	351	356	351	345	335	329	322	322	308	309	320	319	323	328	329
13	344	348	346	344	337	319	302	313	327	336	333	327	327	327	328
14	345	350	345	338	329	331	322	309	296	293	308	320	327	325	324
15†	344	345	359	363	363	353	338	317	309	306	307	316	322	330	331
16†	342	347	345	343	339	329	312	301	294	304	306	317	325	329	329
17	343	347	348	347	333	320	319	319	316	314	307	319	324	330	330
18††	342	345	342	344	344	351	340	324	319	329	325	328	325	328	329
19	345	350	350	346	340	332	318	306	303	314	325	333	332	332	330
20	340	346	340	336	330	313	293	295	277	285	300	309	318	325	329
21††	344	347	353	352	351	344	334	323	326	331	331	326	329	329	330
22	341	346	349	351	344	346	346	339	333	330	333	323	330	341	332
23†	341	343	348	349	340	330	330	329	322	312	312	321	324	332	330
24	341	344	342	334	319	308	303	311	323	323	312	315	322	324	331
25	344	347	346	339	337	331	309	289	307	319	317	321	331	335	332
26	346	353	361	355	332	329	314	306	314	317	316	318	322	326	329
27††	345	349	348	336	331	322	302	296	295	304	323	325	324	322	325
28	351	355	353	350	349	343	333	328	313	310	310	307	309	328	328
29	340	347	340	338	327	319	308	303	297	293	301	318	327	330	328
30	343	347	343	339	336	332	323	316	312	312	312	315	317	326	328
31	340	345	345	342	336	326	309	307	305	304	309	318	322	327	328
Mean .	345	348	347	343	335	328	318	312	311	314	317	320	324	329	330
Mean†.	344	346	347	347	341	331	323	316	314	315	316	323	325	330	330
Mean††	345	348	345	338	333	329	319	314	316	325	330	323	321	327	329

† Five international quiet days.

†† Five international disturbed days.

Δ Less of record; day omitted for means.

TABLE 13

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

July

2,000 plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	H. M.	Y	H. M.	Y	Y	
334	335	340	341	344	344	345	345	345	329	00 50	353	09 00	291	62	1
333	334	339	343	341	341	341	343	344	335	00 02	348	06 32	315	33	2†
331	333	333	334	339	343	343	343	345	337	02 30	356	07 00	321	35	3
329	332	333	333	337	341	339	343	346	328	00 38	352	07 58	294	68	4
330	336	337	338	342	342	343	340	352	337	22 40	353	09 08	340	33	5
330	332	335	335	339	339	342	342	342	332	00 32	350	06 50	308	42	6†
329	333	342	342	338	340	342	342	339	329	00 42	347	07 44	300	47	7
317	279	305	315	306	324	346	348	351	321	21 20	384	16 29	253	131	8††
345	352	361	351	350	350	351	352	352	339	16 45	364	05 00	307	57	9††
333	338	339	340	342	342	340	343	350	334	00 01	362	07 30	307	55	10
331	338	338	342	343	345	342	345	343	331	00 50	351	06 45	301	50	11
332	335	337	332	339	343	338	342	342	333	02 00	360	08 15	304	56	12
330	333	340	337	339	340	340	344	345	334	00 45	350	05 50	301	49	13
328	333	331	337	338	337	338	339	343	329	01 05	352	08 42	290	62	14
330	332	333	336	340	338	340	343	340	335	03 25	367	08 52	305	62	15†
330	332	333	333	336	338	338	339	342	328	02 15	350	08 06	293	57	16†
332	335	335	335	336	336	338	338	339	331	02 34	351	09 41	301	50	17
330	337	338	340	340	336	345	344	345	336	04 55	353	07 54	312	41	18††
332	334	336	339	339	341	343	334	340	333	01 17	351	07 42	288	63	19
332	338	336	338	340	341	341	341	344	324	01 00	347	08 10	271	76	20
332	333	352	339	332	343	338	339	344	338	16 43	365	07 10	322	43	21††
331	337	338	338	339	339	341	339	340	339	02 25	359	11 00	323	36	22
331	333	334	337	338	340	339	339	340	333	02 39	352	09 11	311	41	23†
332	333	334	333	334	335	342	345	341	328	00 48	347	06 05	302	45	24
332	335	341	341	341	339	339	340	348	332	01 10	349	07 22	286	63	25
330	333	335	338	339	339	340	339	341	332	02 30	364	06 58	301	63	26
331	333	333	332	334	336	339	342	350	328	03 38	354	07 34	287	67	27††
331	333	334	338	340	342	342	341	340	334	00 41	363	11 38	304	59	28
328	332	331	335	339	339	339	339	339	322	01 08	354	09 30	290	64	29
330	330	330	330	335	336	339	339	339	330	01 10	350	08 00	308	42	30
330	335	330	339	339	339	338	339	341	329	00 38	347	09 01	301	46	31
331	333	336	337	338	340	341	342	344	332					55	Mean
331	333	333	337	339	339	340	341	342							Mean†
331	327	338	335	332	338	344	345	348							Mean††

† Five international quiet days.

†† Five international disturbed days.

Δ Loss of records; day omitted for means.

TABLE 14

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

August

2,000 plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1	345	346	342	336	326	321	312	314	323	314	311	302	306	329	332
2	346	352	350	341	324	309	300	302	303	314	326	332	329	325	328
3	347	349	349	349	335	324	314	303	300	305	323	333	336	335	331
4†	343	348	344	333	323	309	309	317	323	325	328	325	323	329	342
5†	344	347	344	337	332	326	323	310	300	294	302	314	317	325	326
6†	344	351	355	352	344	324	309	310	298	290	295	306	316	324	329
7	341	346	348	347	336	333	320	319	302	303	315	326	327	329	334
8†	345	350	348	338	332	322	327	324	326	330	329	336	337	337	335
9	347	353	350	338	317	301	301	295	302	313	313	325	330	328	330
10	345	347	341	334	325	322	318	321	347	355	345	334	334	333	327
11	351	352	344	329	326	307	302	305	301	314	316	322	328	331	335
12	348	346	335	325	316	303	305	318	333	335	334	330	327	334	336
13	345	350	342	326	309	283	266	258	273	282	290	312	326	333	335
14	344	349	342	338	327	312	290	279	278	281	291	305	320	327	328
15	345	346	340	331	308	294	291	285	289	292	308	319	329	329	329
16	343	349	340	329	314	291	268	269	274	279	290	303	316	326	327
17††	340	350	337	319	306	296	284	290	260	257	279	305	327	336	327
18††	346	357	342	327	305	290	291	302	304	306	311	319	326	326	327
19	342	350	350	340	332	322	305	302	303	306	306	313	322	327	328
20†	339	346	343	334	315	299	290	283	282	290	300	310	320	326	327
21	337	344	343	328	326	326	323	322	323	321	319	317	326	327	330
22††	338	343	339	352	329	303	290	307	316	307	313	315	321	326	327
23	344	347	339	330	317	303	300	306	313	314	317	324	326	328	329
24††	338	346	352	310	321	315	329	304	299	291	292	303	312	322	335
25	344	347	347	336	327	310	305	302	304	310	310	317	323	328	327
26	339	350	346	334	326	305	292	291	300	306	307	315	319	326	329
27††	343	346	334	323	304	266	260	265	258	281	300	322	329	334	329
28	344	346	329	311	299	282	267	266	271	282	294	304	317	326	326
29	343	349	344	321	293	278	268	265	270	275	291	315	329	335	328
30	343	351	336	317	292	284	277	276	277	283	300	306	322	328	327
31	340	347	340	330	314	290	271	266	271	288	304	310	317	324	323
Mean	343	348	343	332	319	305	297	296	298	301	309	317	324	329	330
Mean†	343	348	347	339	329	316	312	305	301	306	311	318	323	328	332
Mean††	341	348	341	326	313	294	291	294	287	288	299	313	323	329	329

†Five international quiet days.

††Five international disturbed days.

ΔLoss of record; day omitted for means.

TABLE 14

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

August

2,000γ plus tabular quantities

continued

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	H. M.	Y	H. M.	Y	Y	
333	333	336	341	342	340	340	342	342	330	00 44	347	11 23	298	49	1
331	334	336	340	340	339	339	339	342	330	01 00	354	05 50	293	61	2
331	334	335	337	339	341	341	339	341	332	02 30	351	08 24	298	53	3
331	334	336	336	337	342	340	341	345	332	00 50	349	05 40	304	45	4†
329	332	335	341	342	342	342	342	342	329	01 00	349	09 20	291	58	5†
331	334	337	339	341	341	341	341	340	329	01 48	356	09 15	288	68	6†
337	338	338	342	340	340	343	343	343	333	01 34	350	08 15	294	56	7
333	336	340	341	342	343	343	345	345	337	01 09	353	04 58	321	32	8†
333	335	335	338	341	342	338	340	340	329	00 50	356	06 43	294	62	9
330	334	337	338	342	341	344	338	345	336	09 05	357	05 12	314	43	10
335	337	339	339	346	345	344	346	346	331	00 50	355	08 00	301	54	11
336	337	339	342	345	345	344	343	341	332	00 42	351	05 12	302	49	12
336	337	338	339	339	339	339	339	339	320	00 48	351	07 43	253	98	13
330	337	337	336	338	338	337	340	343	323	00 46	350	08 00	278	72	14
330	332	336	338	339	339	339	338	339	324	00 55	347	06 35	283	64	15
327	328	329	336	339	339	339	338	338	318	02 00	351	05 35	267	84	16
332	337	330	328	323	331	327	339	335	316	00 43	352	08 46	252	100	17††
329	335	337	337	338	339	339	339	340	326	00 50	361	05 24	275	86	18††
331	334	337	336	338	338	337	337	337	328	00 58	352	07 00	300	52	19
328	331	335	334	336	336	337	337	337	321	00 48	347	08 00	279	68	20†
331	335	336	338	338	338	337	336	339	331	01 24	345	10 18	314	31	21
334	334	334	338	339	343	343	343	342	328	02 36	358	06 17	278	80	22††
330	334	336	336	337	339	339	338	339	328	01 00	347	06 02	293	54	23
338	334	339	344	340	340	340	340	340	326	01 51	359	09 28	288	71	24††
329	334	335	336	338	337	338	339	340	328	00 30	351	07 54	294	57	25
331	334	335	337	339	337	337	339	339	326	00 50	351	07 00	291	60	26
334	337	334	338	340	347	339	339	334	319	00 41	349	05 47	238	111	27††
326	327	331	330	338	334	335	339	339	315	00 48	349	06 17	262	87	28
329	331	334	335	337	335	337	337	338	317	00 42	350	07 00	265	85	29
329	331	336	337	338	342	340	340	340	319	00 48	353	07 30	274	79	30
324	327	328	334	335	336	336	337	337	317	00 45	349	06 58	265	84	31
331	334	335	337	339	339	339	340	341	326					66	Mean
330	333	337	338	340	341	341	341	342							Mean†
333	335	335	337	336	340	338	340	340							Mean††

†Five international quiet days.

††Five international disturbed days.

Δ Loss of record; day omitted for means.

TABLE 15

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

September

2,000y plus tabular quantities

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
1	339	351	353	343	328	314	300	298	296	301	315	322	322	323	324
2	345	350	340	331	324	315	304	308	317	324	324	322	322	324	327
3††	338	347	345	337	326	307	291	293	301	309	293	322	324	314	298
4††	335	336	335	344	340	346	334	327	324	321	319	317	317	326	326
5††	347	329	328	317	315	332	336	337	339	334	328	327	336	336	331
6	344	351	354	349	341	328	313	305	302	305	313	316	323	330	333
7	345	353	349	335	321	302	290	292	299	306	306	315	323	330	329
8	344	342	330	316	293	287	284	287	298	300	304	312	322	326	327
9	338	344	336	323	316	314	298	300	314	322	327	326	328	326	321
10	339	344	334	321	311	300	291	292	300	314	323	325	316	309	323
11	343	344	339	328	314	313	323	326	335	333	333	335	330	327	327
12	337	344	339	337	327	323	302	295	298	312	325	325	325	326	326
13†	339	349	333	312	299	291	280	275	273	282	296	311	325	327	326
14†	338	349	349	342	326	298	267	256	269	284	297	306	312	321	323
15	337	348	345	327	307	288	271	263	273	292	304	315	322	327	327
16††	338	346	345	329	301	269	276	281	288	288	304	307	312	321	313
17	330	343	336	322	311	302	300	308	312	325	334	333	322	322	327
18†	336	345	341	333	325	312	301	298	305	313	321	322	324	325	326
19	338	347	348	342	325	306	291	290	297	299	302	310	319	322	326
20	338	345	341	329	312	297	281	279	287	299	308	313	315	324	325
21†	335	345	344	332	315	302	290	289	302	314	324	324	318	322	322
22†	335	344	341	323	304	299	294	291	299	311	314	315	314	316	323
23	334	337	327	318	300	284	275	281	290	297	300	305	310	322	323
24	336	348	336	318	305	298	290	283	282	292	302	313	315	319	321
25††	336	344	335	326	307	286	293	296	302	300	306	308	296	310	313
26	344	336	325	315	315	315	315	311	311	319	319	318	318	319	323
27	335	338	329	330	318	307	314	311	325	325	321	319	321	326	325
28	335	339	325	309	Δ	Δ	Δ	Δ	Δ	Δ	Δ	314	316	326	326
29	337	343	343	338	327	303	278	277	283	297	303	308	312	324	326
30	336	338	340	337	317	303	289	290	297	300	305	308	308	312	316
Mean	338	344	339	329	316	305	296	294	301	308	313	317	319	323	323
Mean†	337	346	342	328	314	300	286	282	290	301	310	316	319	322	324
Mean††	339	340	338	331	318	308	306	307	311	330	310	318	317	321	316

†Five international quiet days.

††Five international disturbed days.

Δ Loss of record; day omitted for means.

TABLE 15

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

September

2,000γ plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
326	327	332	337	337	337	338	338	339	327	01 40	355	06 30	294	61	1
329	329	332	335	335	336	336	338	339	329	00 50	351	06 04	303	48	2
313	337	334	334	338	339	335	323	338	322	01 10	348	09 56	288	60	3††
292	278	312	288	306	300	339	324	364	323	23 05	370	15 50	276	94	4††
335	339	345	345	347	350	340	344	340	336	19 22	353	03 27	305	48	5††
334	335	337	339	339	339	337	339	342	331	02 15	357	08 00	302	55	6
325	322	328	334	337	348	339	337	338	325	01 00	354	06 04	289	65	7
330	331	334	335	336	337	337	337	348	321	22 50	349	05 15	281	68	8
322	329	336	335	337	338	339	338	346	327	22 45	348	06 20	293	55	9
328	333	335	336	336	337	337	336	338	323	00 45	345	06 35	290	55	10
328	329	333	335	337	336	337	337	338	332	01 10	345	04 45	311	34	11
328	333	334	335	336	336	336	337	338	327	01 05	345	06 38	293	52	12
327	329	333	334	334	335	335	336	336	317	00 45	350	07 35	272	78	13†
327	327	329	331	333	334	335	335	336	318	01 15	350	07 10	254	96	14†
328	330	332	332	333	334	334	335	334	318	01 10	352	07 14	263	89	15
322	332	324	324	321	332	337	340	336	316	01 05	347	05 10	266	81	16††
327	330	333	335	336	335	335	336	335	326	01 12	347	05 44	295	52	17
327	329	332	333	337	335	334	336	336	326	01 00	345	06 52	295	50	18†
327	328	332	333	334	334	334	335	336	323	02 00	348	07 00	289	59	19
327	329	332	333	335	334	334	334	335	320	00 50	347	07 00	279	68	20
326	327	332	332	334	334	335	334	334	324	01 00	347	06 40	287	60	21†
325	327	326	328	327	328	328	329	330	320	00 55	345	06 39	290	55	22†
325	325	325	328	330	333	330	331	333	315	01 50	338	05 45	273	65	23
323	325	325	328	334	335	335	334	334	318	00 40	349	07 22	281	68	24
312	330	334	338	338	338	348	339	342	320	00 45	346	04 58	271	75	25††
325	325	334	334	336	336	336	335	335	325	00 01	342	06 45	307	35	26
326	328	330	331	334	331	335	337	334	326	00 41	339	05 12	305	34	27
326	329	334	337	336	336	335	334	335	Δ	Δ	Δ	Δ	Δ	Δ	28
326	327	331	331	334	334	332	334	334	320	01 00	343	06 02	271	72	29
324	324	324	327	334	334	332	342	337	320	21 56	344	06 00	285	59	30
325	327	331	332	334	335	336	336	338	323					62	Mean
326	328	330	332	333	333	333	334	334							Mean†
315	323	330	326	330	332	340	334	344							Mean†

† Five international quiet days.

†† Five international disturbed days.

Δ Loss of record; day omitted for means.

TABLE 16

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

2,000γ plus tabular quantities

October

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1	336	339	335	326	314	298	284	284	300	303	307	315	322	322	324
2	335	334	327	324	314	306	297	294	293	293	297	305	315	323	326
3	332	336	343	343	331	314	299	289	294	304	306	313	310	323	321
4†	338	343	337	334	324	313	304	294	301	306	308	309	314	324	324
5	334	346	338	331	315	302	294	290	287	293	304	314	315	325	327
6	332	337	337	333	324	309	299	293	295	305	311	318	321	323	321
7	331	332	325	321	309	297	280	280	293	298	302	308	313	321	325
8	332	332	325	318	314	309	307	300	300	305	313	314	317	324	327
9†	332	337	332	327	325	325	316	318	325	324	316	311	317	325	327
10†	333	338	336	335	329	316	301	301	298	300	305	308	315	320	324
11†	336	344	337	324	308	298	300	295	298	306	316	316	317	325	327
12†	335	340	339	329	314	297	283	279	280	285	294	304	313	324	325
13	335	339	338	330	315	294	278	281	299	303	307	318	318	318	322
14	330	338	328	317	301	269	259	259	271	291	306	318	319	321	325
15	331	332	332	326	309	291	293	298	299	307	317	318	319	326	326
16	334	339	340	338	315	292	280	283	292	295	303	307	315	317	322
17	332	338	337	331	318	298	302	303	303	301	300	306	311	319	323
18	332	338	339	339	329	312	295	285	279	281	284	293	307	318	321
19	331	339	334	329	319	308	296	294	294	295	298	296	305	318	324
20	337	332	328	326	318	314	306	301	301	295	296	303	314	323	324
21	331	330	325	322	328	319	310	311	307	307	309	314	311	318	324
22†	336	336	336	345	345	325	295	296	283	294	325	326	325	317	323
23†	338	336	336	331	328	325	332	338	332	326	317	315	315	319	322
24†	336	339	338	339	339	333	337	332	316	295	292	298	310	301	311
25	332	330	330	333	337	334	333	337	336	329	328	325	317	325	326
26	337	341	336	329	318	305	290	279	272	280	293	307	311	319	326
27†	332	333	330	336	337	329	316	307	306	310	315	311	315	322	322
28†	333	333	331	329	322	315	309	317	313	295	295	306	310	315	318
29	332	329	330	331	329	318	323	318	311	308	307	310	316	326	327
30	329	332	334	337	327	318	309	303	289	296	300	305	310	316	326
31	331	329	329	332	333	317	309	306	305	305	307	308	318	327	320
Mean	333	336	334	330	322	310	301	299	299	301	306	310	315	321	324
Mean†	335	340	336	330	320	310	301	297	300	304	308	310	315	324	325
Mean††	335	335	334	336	334	325	318	318	310	304	309	314	315	315	319

† Five international quiet days.

†† Five international disturbed days.

Δ Loss of record ; day omitted for means.

TABLE 16

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

October

2,000γ plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
324	326	328	329	332	330	331	330	335	320	00 40	342	05 15	279	63	1
327	327	329	331	331	331	330	331	336	319	00 36	337	08 52	291	46	2
324	319	316	335	329	335	337	337	337	322	02 09	346	07 07	286	60	3
326	328	329	331	331	331	332	336	336	323	00 45	345	06 40	293	52	4†
327	327	328	328	328	333	331	331	335	320	01 00	347	07 11	284	63	5
327	330	329	330	332	332	332	330	331	322	00 48	338	07 10	292	46	6
327	328	324	330	335	333	336	336	337	318	22 25	340	06 25	275	65	7
328	328	328	331	332	332	332	332	332	321	00 01	332	06 52	298	33	8
327	328	329	331	330	329	330	330	330	326	00 45	338	11 00	311	27	9†
325	327	327	329	330	329	328	329	331	321	00 50	340	07 58	297	43	10†
328	329	332	335	332	330	336	338	336	327	00 46	345	07 32	294	51	11†
327	328	331	333	336	331	333	337	336	316	01 05	341	06 00	279	62	12†
328	329	328	329	333	333	332	331	330	319	00 45	340	01 15	275	65	13
325	328	329	330	331	330	330	330	330	313	00 40	339	06 25	253	86	14
326	326	328	333	333	331	333	337	333	321	21 38	339	05 15	285	54	15
326	326	328	329	331	331	329	331	332	318	02 20	341	06 30	276	65	16
324	324	326	328	329	330	328	328	329	320	00 45	339	04 40	295	44	17
324	321	326	329	329	328	328	329	330	316	02 18	341	08 08	278	68	18
322	325	319	324	329	330	329	330	329	317	00 38	341	06 26	298	48	19
325	325	326	329	329	329	328	329	331	320	00 12	341	09 00	295	46	20
324	324	328	328	328	331	329	333	332	322	00 32	337	08 15	305	32	21
326	319	326	321	321	338	331	326	329	323	03 21	364	08 10	281	83	22††
321	321	326	326	331	340	337	342	337	329	19 30	348	11 04	300	39	23††
329	330	341	339	347	346	328	334	339	327	19 20	354	13 39	286	68	24††
328	330	332	334	333	333	332	333	334	331	03 30	339	12 10	316	23	25
325	319	326	329	331	336	333	330	330	317	00 45	342	07 47	271	71	26
324	326	317	317	295	308	333	330	326	321	21 05	344	19 00	294	50	27††
319	317	328	327	320	330	332	333	332	320	17 35	345	09 35	290	55	28††
327	330	327	332	332	331	337	327	327	324	20 39	340	10 00	307	33	29
318	323	331	327	329	333	330	340	335	321	22 12	343	08 06	285	58	30
327	327	327	329	329	327	330	330	331	322	03 41	339	07 36	300	39	31
325	326	327	329	330	331	332	332	333	321					53	Mean
327	326	330	332	332	330	332	334	334							Mean†
324	323	328	324	325	332	332	333	333							Mean††

† Five international quiet days.

†† Five international disturbed days.

Δ Loss of record; day omitted for means.

TABLE 17

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

November

2,000γ plus tabular quantities

Date	Hours G.M.T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1	330	338	338	333	311	303	301	304	299	287	295	304	308	319	323
2††	327	331	339	341	331	318	314	308	307	297	296	307	311	316	308
3††	331	331	337	340	327	325	318	310	295	288	296	307	317	319	318
4	329	331	337	341	340	329	323	316	304	306	308	315	318	318	326
5†	330	332	331	333	331	329	322	316	307	304	306	309	317	325	326
6†	331	332	334	338	333	318	307	297	293	293	299	307	315	320	322
7†	330	330	330	334	331	328	319	313	309	309	308	308	315	318	322
8†	330	330	328	328	330	331	327	311	300	301	304	316	320	325	319
9	332	331	330	333	330	318	313	315	301	295	297	307	316	321	327
10††	330	331	331	334	332	331	331	331	325	311	295	297	307	316	324
11††	328	332	323	324	326	318	312	316	312	313	310	317	320	327	327
12	330	330	333	334	327	330	330	327	324	317	309	307	311	318	327
13	327	330	330	326	311	317	312	318	321	319	317	316	318	323	324
14	332	333	324	320	311	304	316	319	318	318	316	317	317	321	323
15	325	327	328	332	333	327	319	328	330	319	318	319	318	321	321
16	334	333	332	337	331	325	318	320	312	315	317	314	312	314	315
17	330	329	332	339	336	334	330	332	327	320	317	314	317	323	326
18	333	334	333	330	320	309	302	296	295	307	318	320	318	319	324
19	331	333	337	337	332	331	331	334	333	326	315	312	311	317	318
20	327	327	326	326	326	318	316	307	303	300	302	302	300	312	315
21	327	323	320	319	316	311	308	311	315	315	309	306	306	313	316
22†	326	328	328	332	332	337	349	349	332	317	309	305	303	314	318
23	325	325	322	324	324	323	316	309	305	302	304	295	299	305	309
24	325	325	325	330	334	337	339	325	308	302	294	295	303	307	318
25	322	328	328	329	334	337	339	333	329	317	303	294	307	316	314
26	328	326	326	328	322	327	325	324	318	310	304	300	305	314	315
27	324	325	325	328	331	337	337	327	324	315	305	307	315	325	327
28††	328	330	328	328	328	318	327	312	315	305	300	304	305	314	327
29	327	328	327	327	314	316	324	320	306	302	315	315	310	314	315
30†	328	329	329	328	327	316	313	308	312	308	313	306	309	318	314
Mean	329	330	330	331	327	323	321	318	313	308	307	308	312	318	320
Mean†	329	330	330	332	331	326	324	316	309	305	306	309	313	320	321
Mean††	329	331	332	333	329	322	320	315	311	303	299	306	314	321	321

†Five international quiet days.

††Five international disturbed days.

ΔLoss of record; day omitted for means.

TABLE 17

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

November

2,000γ plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	γ	
327	324	326	325	327	327	330	330	329	318	01 00	338	09 15	287	51	1
306	306	303	327	340	338	333	333	331	320	02 52	343	09 50	295	48	2††
324	327	327	329	333	332	331	334	331	322	03 20	342	09 00	291	51	3††
326	327	327	329	329	329	331	329	329	325	03 00	341	08 30	303	38	4
326	326	327	329	329	329	329	329	330	324	00 42	335	09 00	304	31	5†
322	323	324	327	327	327	327	327	330	320	03 05	339	08 30	292	47	6†
319	328	330	331	330	330	330	330	330	323	02 54	335	10 44	305	30	7
326	326	328	330	330	330	330	330	331	324	05 15	333	08 15	298	35	8†
324	326	328	330	328	330	330	330	330	322	03 15	334	09 00	294	40	9
324	325	321	318	325	332	331	327	328	324	02 52	338	11 03	290	48	10††
328	328	328	330	330	330	330	328	328	324	01 35	335	09 56	307	28	11††
326	326	328	328	330	331	330	327	327	325	19 24	336	10 18	305	31	12
325	326	327	330	328	328	330	330	330	323	23 58	331	04 25	300	31	13
324	327	327	328	328	330	328	328	327	322	00 44	336	05 00	303	33	14
326	328	330	330	331	331	331	332	332	327	03 34	334	10 00	317	17	15
317	323	326	329	329	327	329	330	330	324	02 30	343	08 07	309	34	16
327	326	329	331	330	331	332	330	331	328	03 15	341	11 00	314	27	17
325	325	329	329	327	329	329	331	330	321	00 36	337	07 52	293	44	18
318	317	320	326	326	327	327	327	326	326	03 35	338	12 00	311	27	19
317	317	319	324	324	323	322	323	323	317	00 35	329	08 35	297	32	20
317	318	324	328	328	326	323	322	322	318	18 00	328	10 45	305	23	21
319	321	323	325	326	325	326	326	325	325	06 18	352	11 30	302	50	22†
318	318	318	323	325	325	323	323	324	316	00 35	328	11 00	295	33	23
322	325	326	326	325	324	326	325	324	320	05 42	340	10 25	293	47	24
306	309	311	318	308	316	318	323	326	319	05 30	340	10 45	293	47	25
316	317	317	323	330	328	327	321	324	320	18 58	331	11 00	300	31	26
325	324	328	337	331	329	327	327	327	325	17 37	338	10 15	304	34	27
328	325	325	327	325	325	325	325	328	321	01 15	333	10 15	294	39	28††
315	324	328	330	330	328	328	328	328	321	18 18	332	09 00	300	32	29
325	327	327	327	327	328	327	327	328	321	00 48	331	11 00	306	25	30†
322	323	324	327	328	328	328	328	328	322					36	Mean
324	325	326	328	328	328	328	328	329							Mean†
322	322	321	326	331	331	330	329	329							Mean††

† Five international quiet days.

†† Five international disturbed days.

Δ Loss of record; day omitted for means.

TABLE 18

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

December

2,000 plus tabular quantities

Date	Hours G. M. T.														
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1†	328	329	328	322	313	304	306	305	304	304	305	304	306	313	315
2	328	329	328	335	337	328	321	324	315	318	315	304	290	294	301
3	328	328	328	335	316	308	305	308	312	316	312	305	307	315	318
4††	327	340	340	338	330	324	315	327	314	301	293	292	289	297	300
5††	307	324	316	326	326	326	336	338	338	338	336	329	313	313	313
6	327	326	326	335	330	323	326	327	324	313	299	298	304	309	312
7†	326	326	325	326	320	317	313	306	299	301	299	301	309	315	320
8	326	326	326	326	317	313	303	300	291	290	288	290	300	312	311
9	317	317	316	320	315	303	301	290	283	300	304	307	307	316	323
10†	320	317	314	316	314	306	305	297	292	291	291	300	301	316	323
11	325	327	318	314	312	310	305	302	295	292	292	299	312	315	315
12†	320	318	313	316	324	318	313	305	301	299	295	301	305	314	316
13††	321	330	326	337	335	317	310	308	306	302	295	304	307	294	283
14	324	317	325	330	330	323	318	325	327	327	319	317	317	315	307
15	323	326	326	330	332	328	304	293	285	288	303	309	309	317	318
16	330	335	331	318	305	299	283	283	296	302	318	321	307	303	318
17††	328	331	329	322	307	303	295	298	298	299	298	306	309	315	320
18††	311	322	321	338	333	331	331	321	322	323	324	322	321	327	323
19	329	327	334	339	333	323	321	322	321	315	301	312	313	323	327
20	327	331	334	334	324	321	313	305	299	298	300	300	309	317	317
21	325	325	325	331	329	324	325	325	322	315	315	314	313	321	322
22	324	331	337	337	334	319	303	300	301	304	309	311	315	324	324
23	324	326	330	332	325	315	307	288	278	281	291	302	311	319	313
24	325	331	326	323	315	312	303	296	289	289	292	302	305	315	323
25†	328	327	325	332	332	324	320	310	301	297	295	298	305	315	318
26	336	333	332	334	326	326	316	303	302	299	304	312	313	314	317
27	328	325	328	333	328	317	314	307	297	293	295	301	307	321	328
28	336	337	335	334	320	308	305	305	302	297	306	312	317	320	320
29	327	329	330	330	322	309	316	316	316	309	318	320	321	323	324
30	329	330	331	329	318	306	284	282	291	303	316	318	316	318	322
31	329	331	331	328	319	306	296	293	304	308	310	316	319	320	325
Mean	325	327	327	329	323	316	310	307	304	304	305	307	309	315	317
Mean†	324	323	321	322	321	314	311	305	299	298	297	301	305	315	318
Mean††	319	329	326	332	326	320	317	318	316	318	309	311	308	309	308

†Five international quiet days.

††Five international disturbed days.

△Loss of record; days omitted for means.

TABLE 18

Hourly values of Vertical Force, 1958

(Averages for sixty minutes centred at the full hours of Greenwich Mean Time)

December

2,000y plus tabular quantities

Hours G. M. T.									Mean	Maximum		Minimum		Range	Date
15	16	17	18	19	20	21	22	23		Time	Mag.	Time	Mag.		
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	H. M.	Y	H. M.	Y	Y	
318	324	325	327	327	327	327	327	327	317	00 50	331	07 35	302	29	1†
307	325	329	327	328	331	328	347	333	321	21 53	353	12 10	286	67	2
321	324	323	323	323	323	323	325	327	319	02 37	336	11 04	302	34	3
289	292	297	302	330	312	306	312	325	312	18 42	348	10 09	284	64	4††
324	327	328	327	328	326	326	326	327	326	06 25	340	00 05	306	34	5††
313	315	322	326	326	326	324	323	327	320	02 45	337	10 20	293	44	6
323	323	323	324	324	324	324	324	324	317	02 00	327	08 00	297	30	7†
313	314	323	327	324	323	326	317	315	313	20 48	330	10 00	283	47	8
326	321	324	322	322	320	320	319	320	313	15 00	326	07 48	275	51	9
323	322	322	323	323	323	322	324	325	313	23 00	325	09 45	290	35	10†
316	316	316	318	321	320	317	317	327	313	22 30	330	09 08	290	40	11
316	316	318	319	317	321	318	317	318	313	00 55	328	10 00	295	33	12†
285	300	306	300	318	317	327	334	329	312	22 15	350	14 13	279	71	13††
317	312	316	319	323	318	318	324	325	321	04 05	329	13 20	300	29	14
317	315	320	328	326	323	326	327	328	317	04 18	334	08 00	283	51	15
317	319	320	328	329	326	326	327	327	315	01 00	340	06 25	281	59	16
320	321	319	311	311	309	318	310	311	312	01 10	332	06 10	294	38	17††
323	328	329	329	329	327	324	328	327	326	03 20	345	00 01	310	35	18††
322	329	324	324	329	330	331	327	327	324	02 45	342	09 45	298	44	19
323	323	325	321	323	324	328	324	324	318	02 22	338	08 45	296	42	20
320	322	323	325	325	332	325	325	324	323	19 45	333	09 25	312	21	21
324	324	325	325	325	329	324	327	324	321	02 20	338	06 30	299	39	22
316	316	323	330	325	324	326	324	323	315	02 30	333	08 36	276	57	23
325	325	325	326	328	328	328	326	330	316	01 00	333	08 18	287	46	24
324	324	326	327	327	327	329	328	329	320	03 02	334	10 35	294	40	25†
324	326	325	327	328	330	329	333	328	322	01 00	339	09 00	298	41	26
327	327	328	329	330	329	329	329	329	320	02 48	336	09 00	293	43	27
318	319	328	328	330	330	328	328	329	320	00 12	340	09 10	296	44	28
327	326	328	329	331	329	329	335	330	324	21 45	336	09 00	307	29	29
329	324	327	328	326	329	329	327	323	318	01 02	332	06 30	281	51	30
329	325	325	328	324	329	328	328	329	320	01 00	331	06 32	287	44	31
319	320	322	323	325	325	325	325	326	318					43	Mean
321	322	323	324	324	324	324	324	325							Mean†
308	314	315	314	323	318	320	322	322							Mean††

† Five international quiet days.

†† Five international disturbed days.

Δ Loss of record; day omitted for means.

TABLE 19
PRINCIPAL MAGNETIC STORMS

July to December 1958

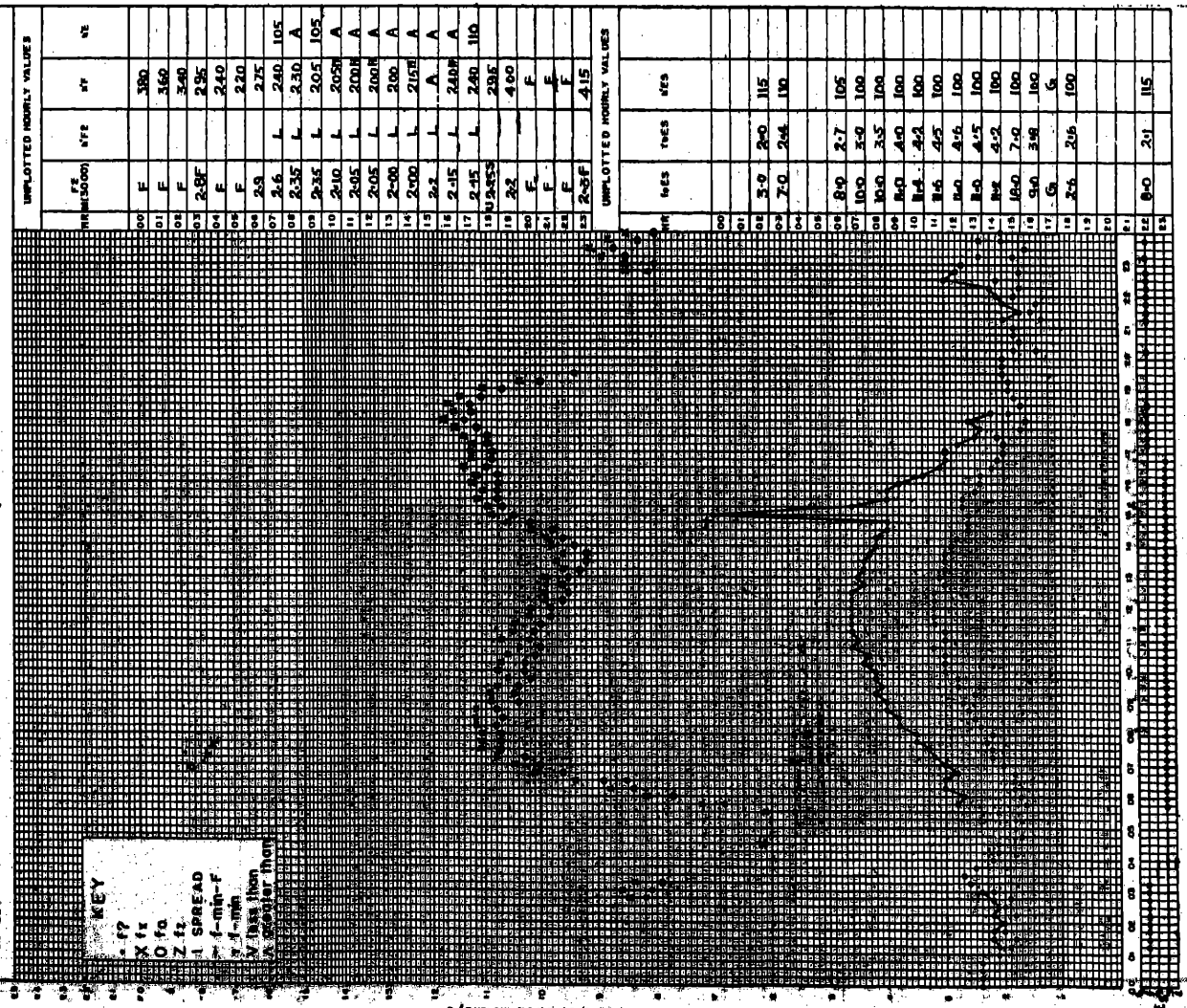
Observatory	Greenwich Date	Storm Time		Sudden commencements			C-figures Degree of Activity (iv)	Maximal Activity on K scale 0 to 9			Ranges			
		G.M.T. of beginning	G.M.T. of ending (i)	Type (ii)	Amplitude (iii)			Greenwich Day	Greenwich 3 hrs. index	K-index	D.	H.	Z	
					D.	H.								Z.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Astrophysical Observatory Kodaikanal		h. m.	d. h.			Y	Y						Y	Y
	July 8	07 51	9 18	S.C.	4	176	58	s	8	..	..	17	710	131
	July 21	16 36	22 14	S.C.	1	66	29	m	21	..	..	8	132	40
	August 17	06 18	18 13	S.C.	2	90	31	ms	17	..	..	13	382	104
	August 22	02 29	22 20	S.C.	2	68	25	m	22	..	..	4	163	69
	August 24	01 38	25 15	S.C.	1	52	23	m.s	24	..	..	8	348	75
	August 27	03 01	27 22	S.C.	1	46	12	m	27	..	..	8	187	115
	September 3	08 38	5 17	S.C.	2	61	24	s	4	..	..	11	532	92
	September 16	09 25	17 10	S.C.	2	80	27	m	16	..	..	8	237	52
	September 25	04 09	26 10	S.C.	2	76	25	ms	25	..	..	8	373	58
	October 22	03 14	24 01	S.C.	2	109	23	ms	22	..	..	8	328	81
	October 24	07 28	25 13	S.C.	2	113	21	ms	24	..	..	8	389	69
	October 28	06 49	29 08	S.C.	1	77	12	m	28	..	..	4	249	51
	November 28	01 08	29 12	S.C.	1	25	7	m	28	..	..	6	179	40
	December 4	00 35	5 18	S.C.	1	29	12	ms	4	..	..	8	348	69
December 13	00 07	14 23	S.C.	1	24	13	ms	13	..	..	5	290	58	
December 17	18 18	19 10	S.C.	1	40	16	m	18	..	..	4	187	40	

The following symbols and conventions have been used according to recognised practice :

- (i) Approximate time of ending construed as the time of cessation of reasonable marked disturbance movements in the traces.
- (ii) S.C. —Sudden commencement; (...) = Gradual commencement
- (iii) Signs of amplitudes of 'D' and 'Z' taken algebraically; (D—reckoned negative being westerly)
(Z—reckoned positive being vertically downwards).
- (iv) Storm described by three degrees of activity : (m)—for moderate (when range is less than 250γ).
(ms)—for moderately severe (when range is between 251γ to 400γ).
(s)—for severe (when range is above 400γ).

DATE 8.7.58. S.W.I.
STATION KODAIKANAL
MERIDIAN TIME 75.0 E
SCALED BY

DATE 8.7.78. S.W.I.
SCALED BY



DATE 9.7.58. 5.45J
STATION KODAIKANAL
MERIDIAN TIME 75° 08
SCALED BY

DATE 9.7.58. SWJ
SCALED BY

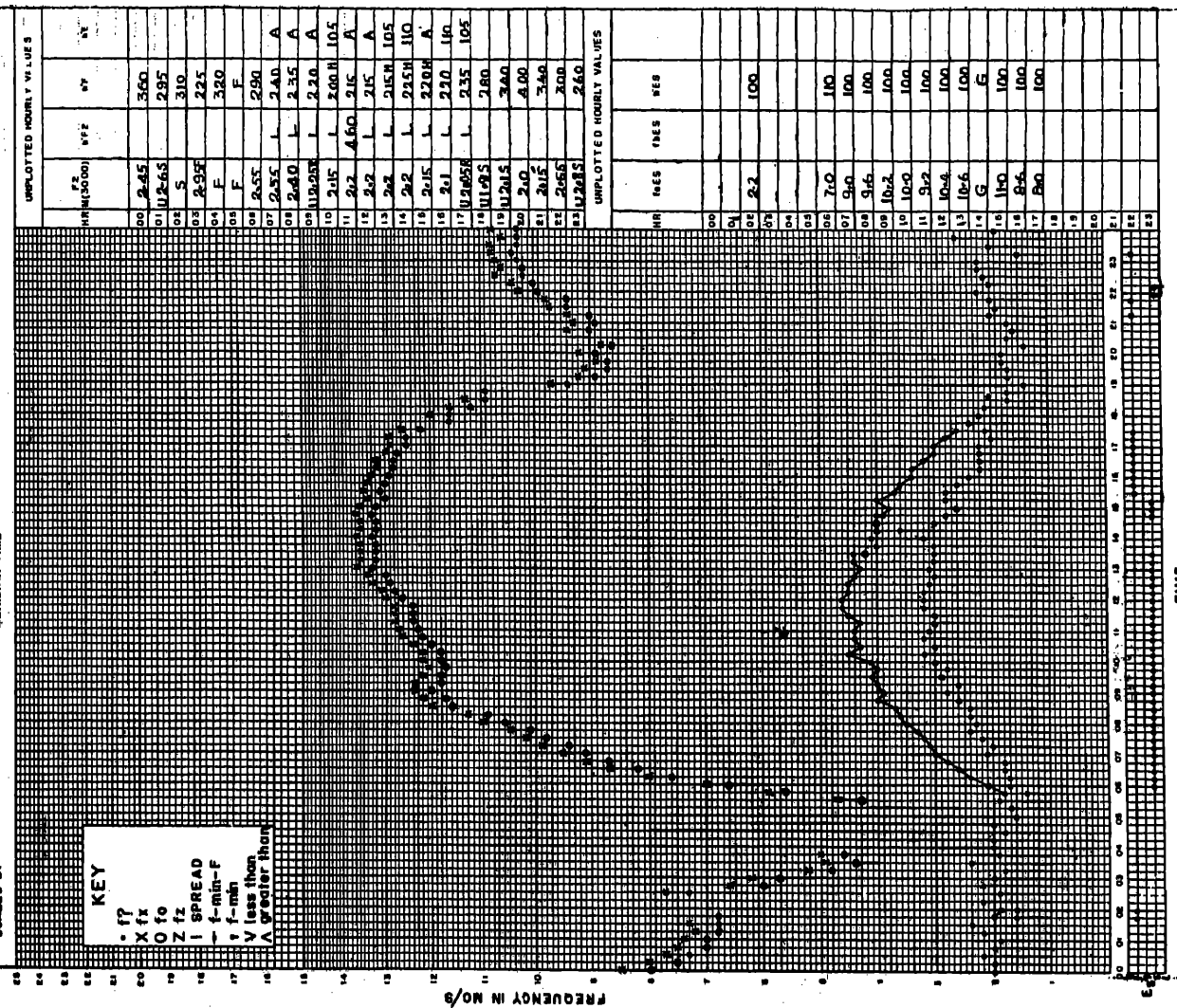
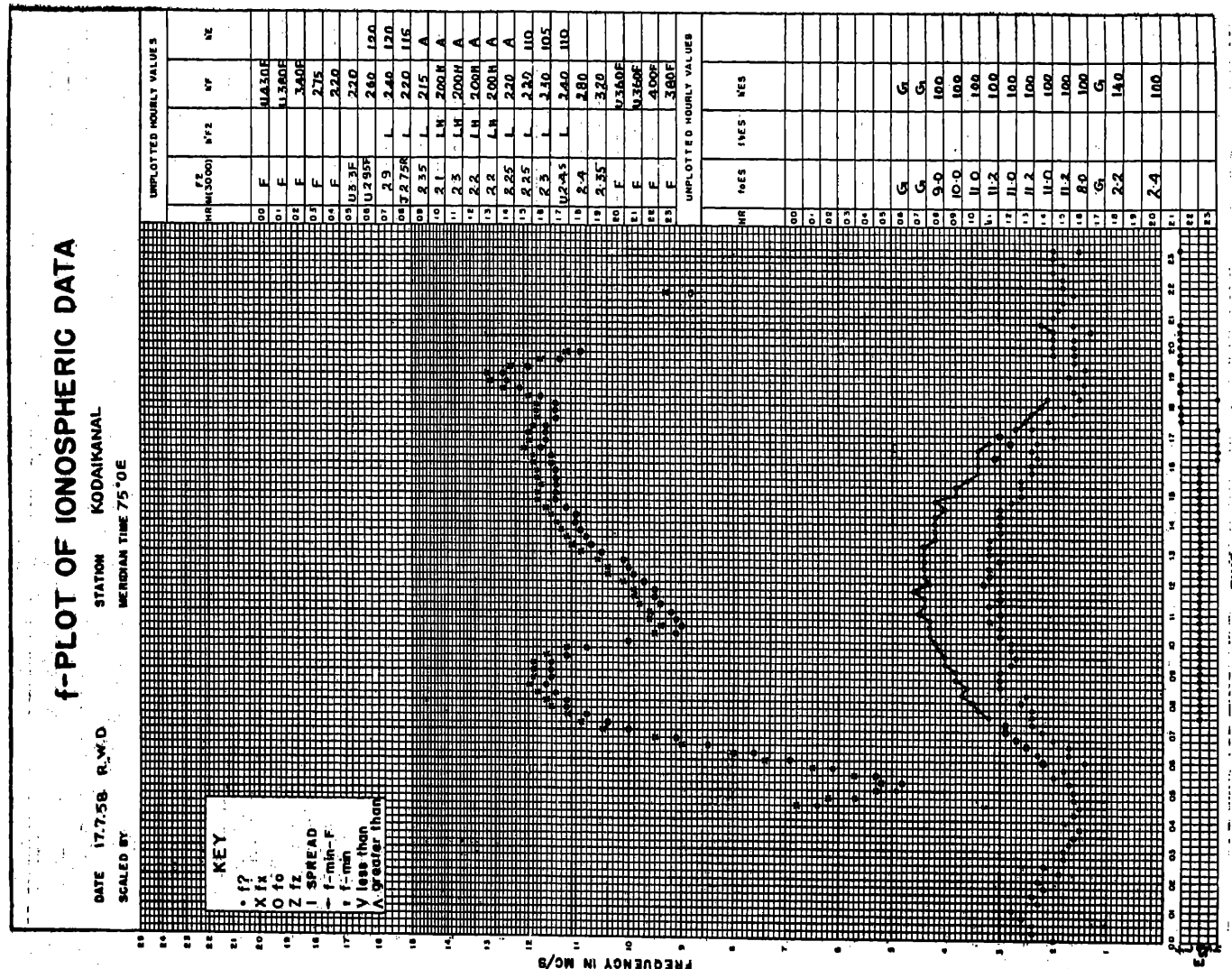
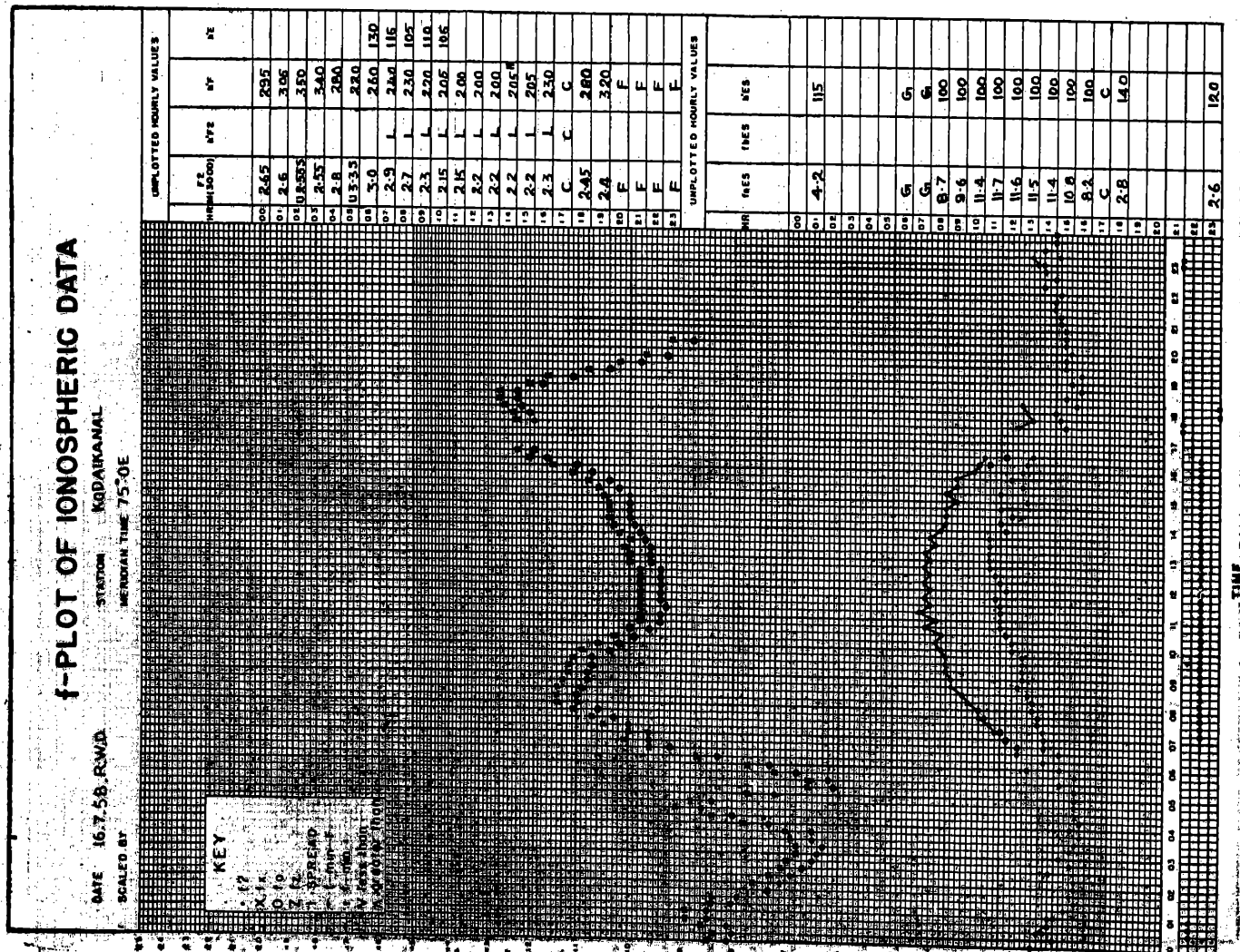


TABLE II



DATE 27.7.58 R.W.D
SCALED BY

STATION KODAIKANAL
MERIDIAN TIME 75° 0E

DATE 30.7.58 S.W.I
SCALED BY

f-PLOT OF IONOSPHERIC DATA

STATION KODAIKANAL
MERIDIAN TIME 75°0E

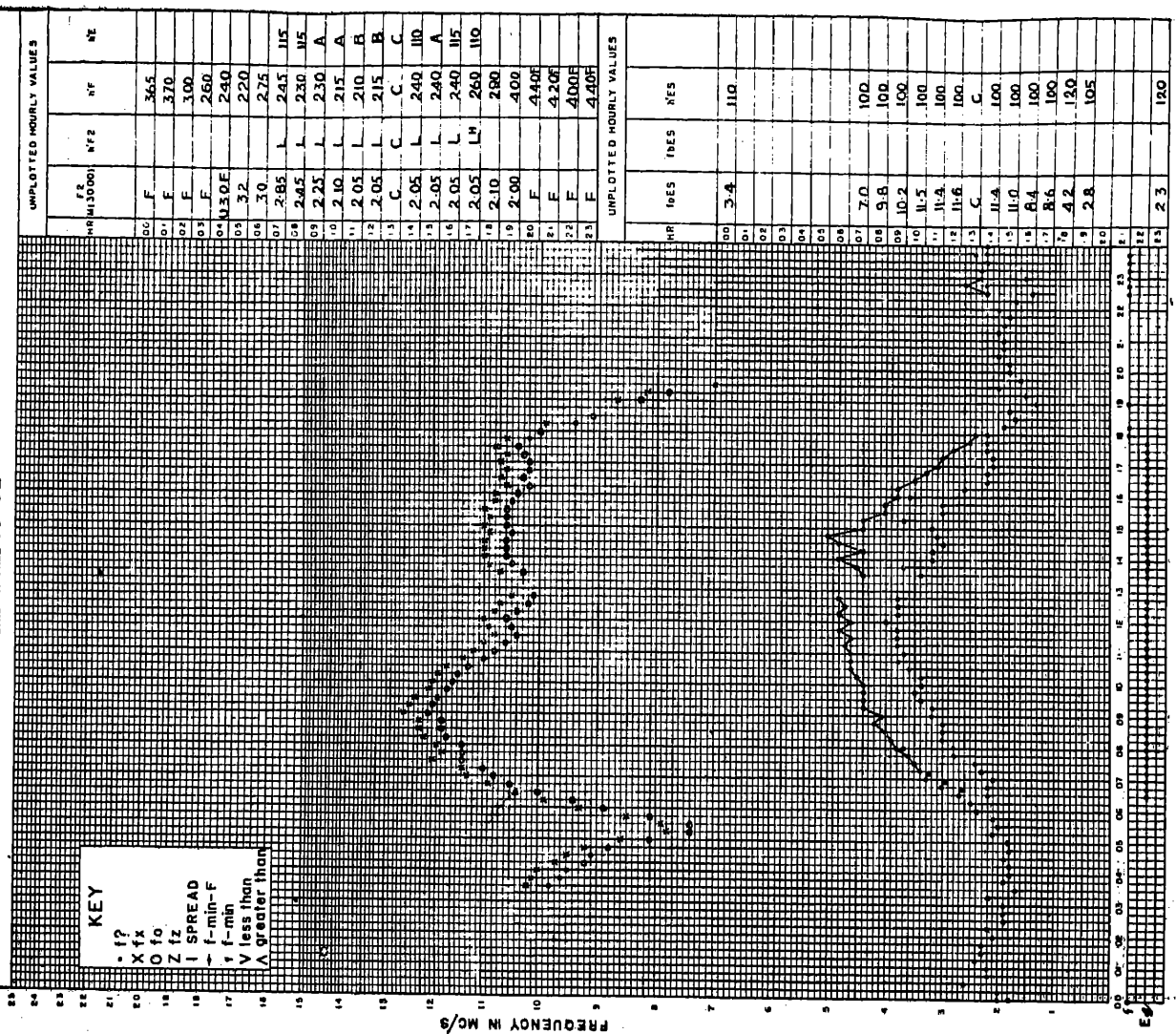
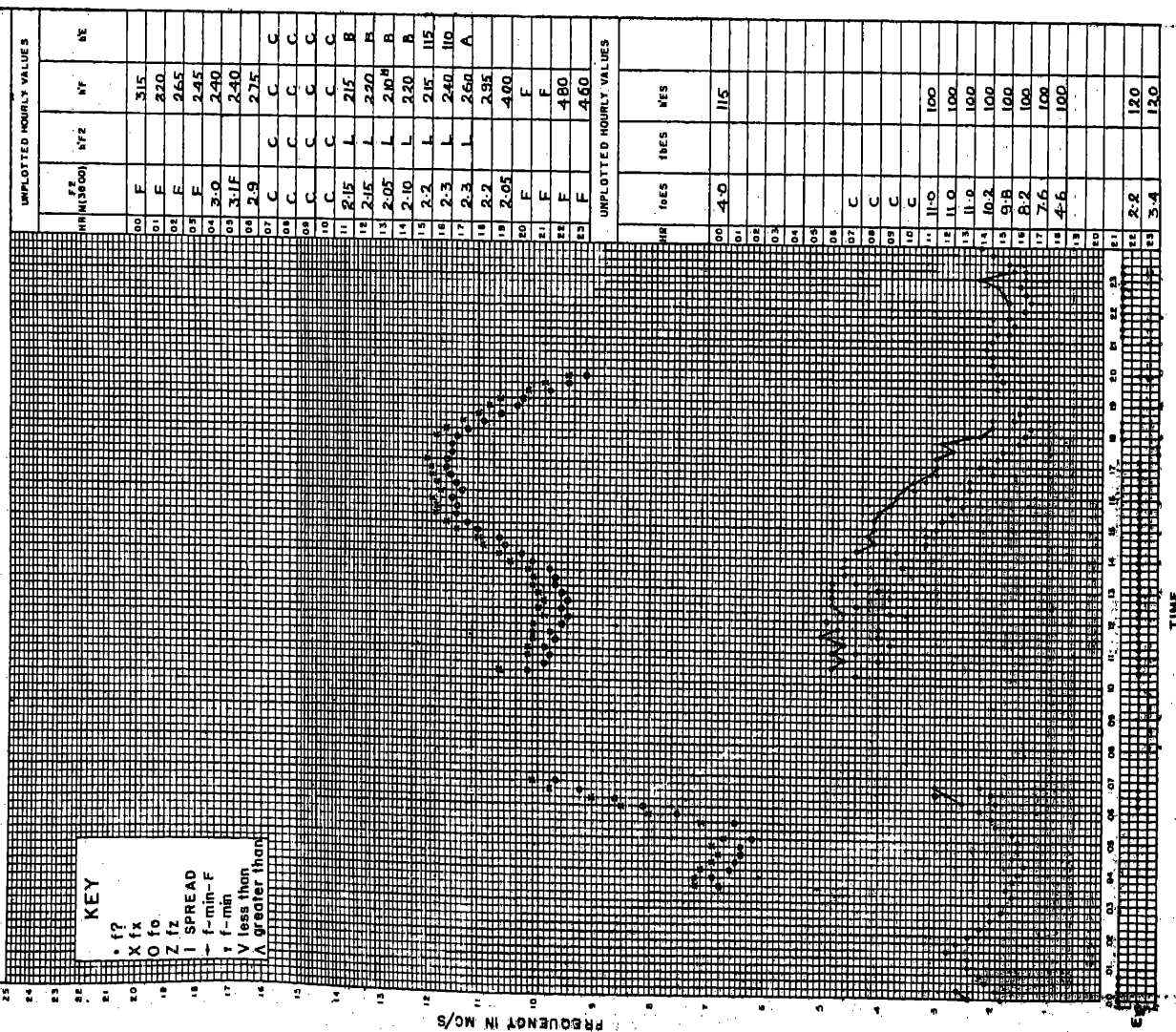


TABLE IV

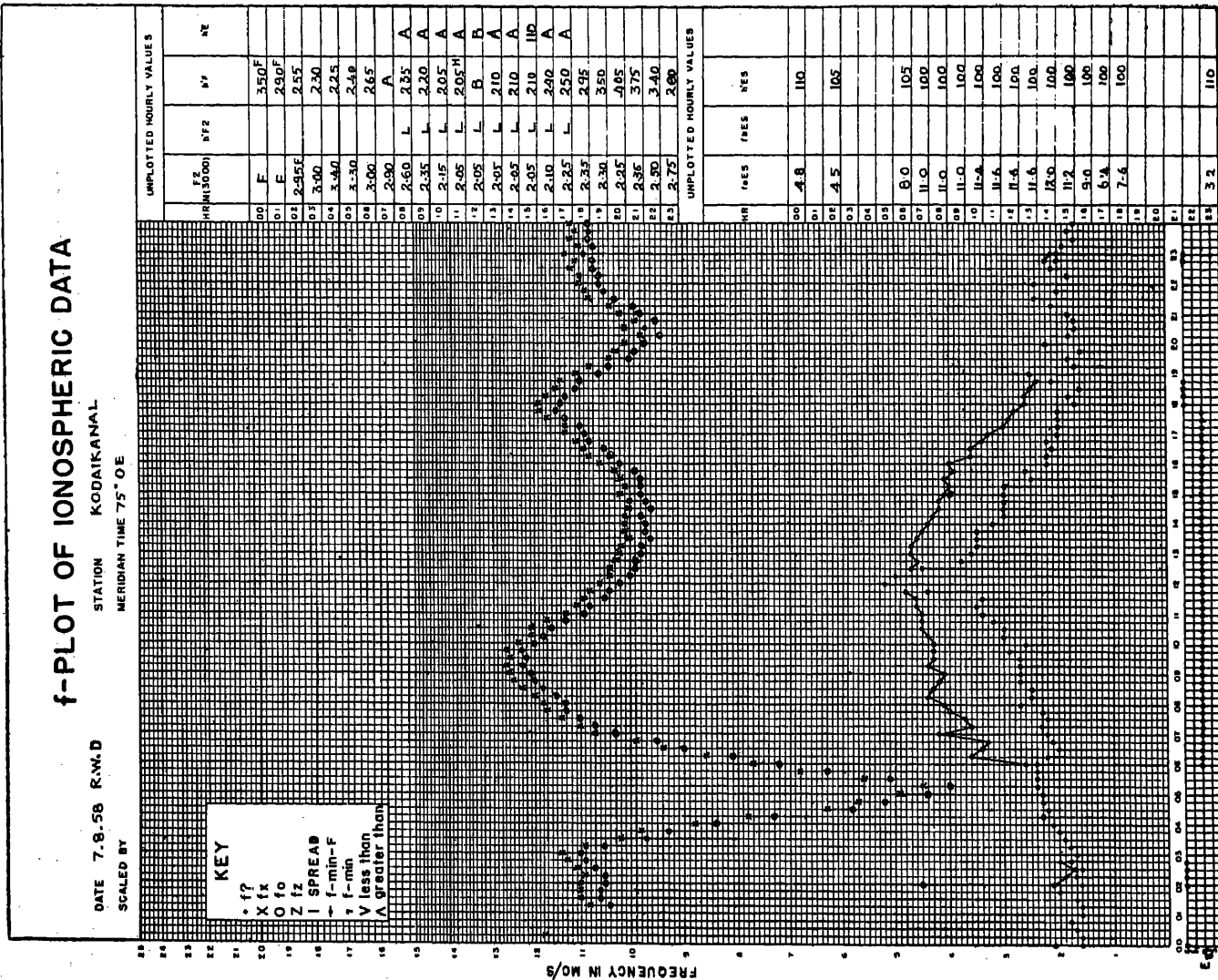
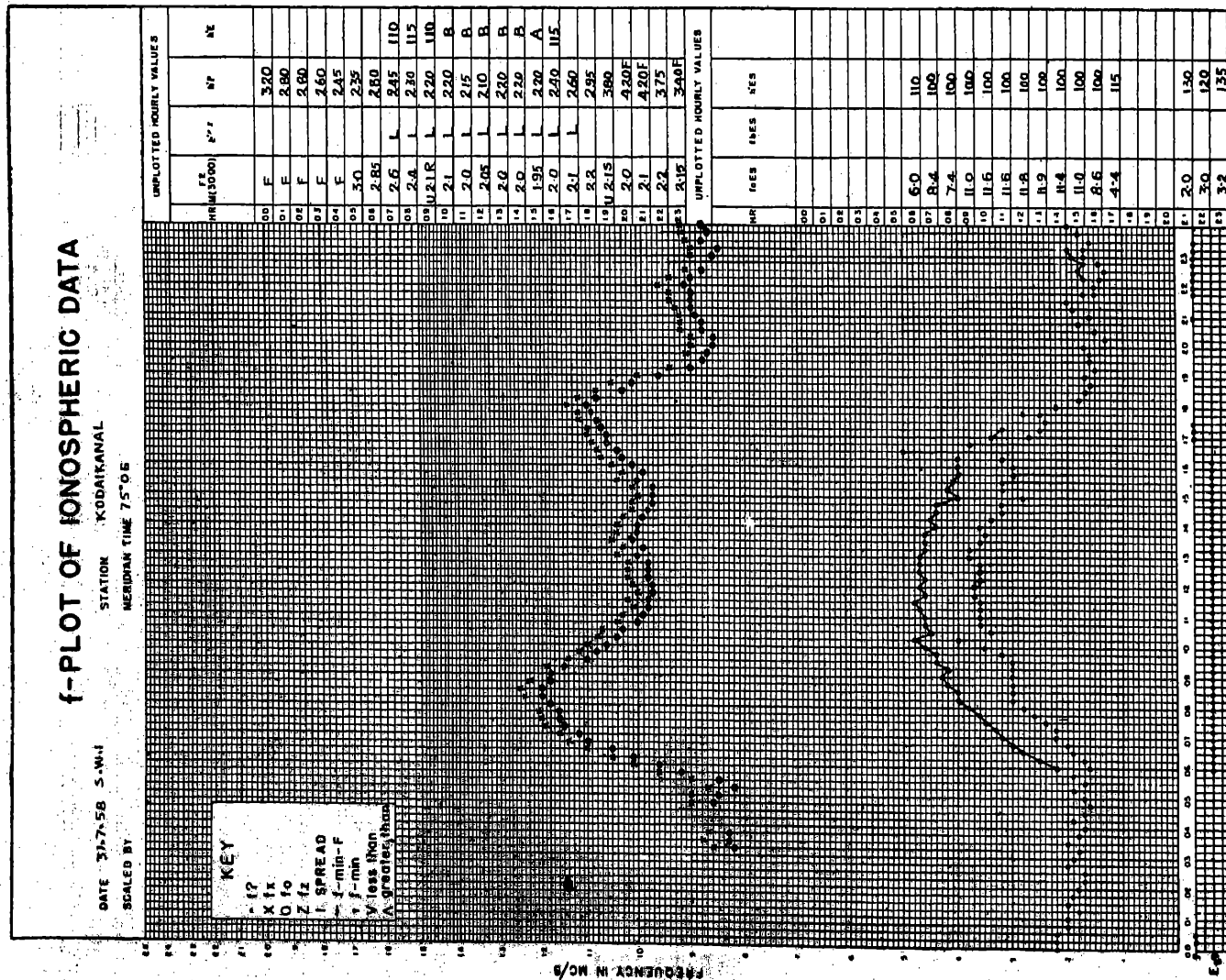


TABLE V

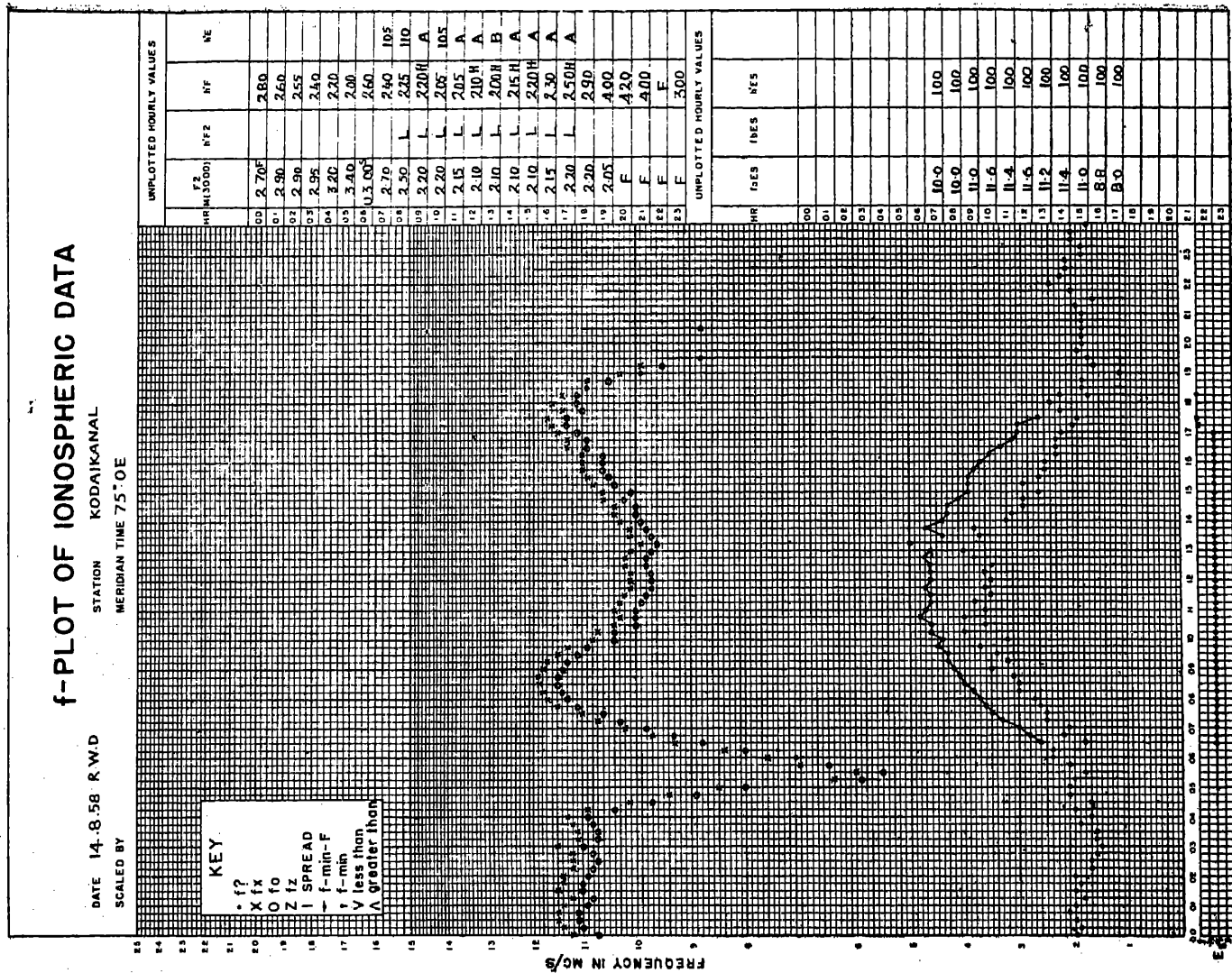
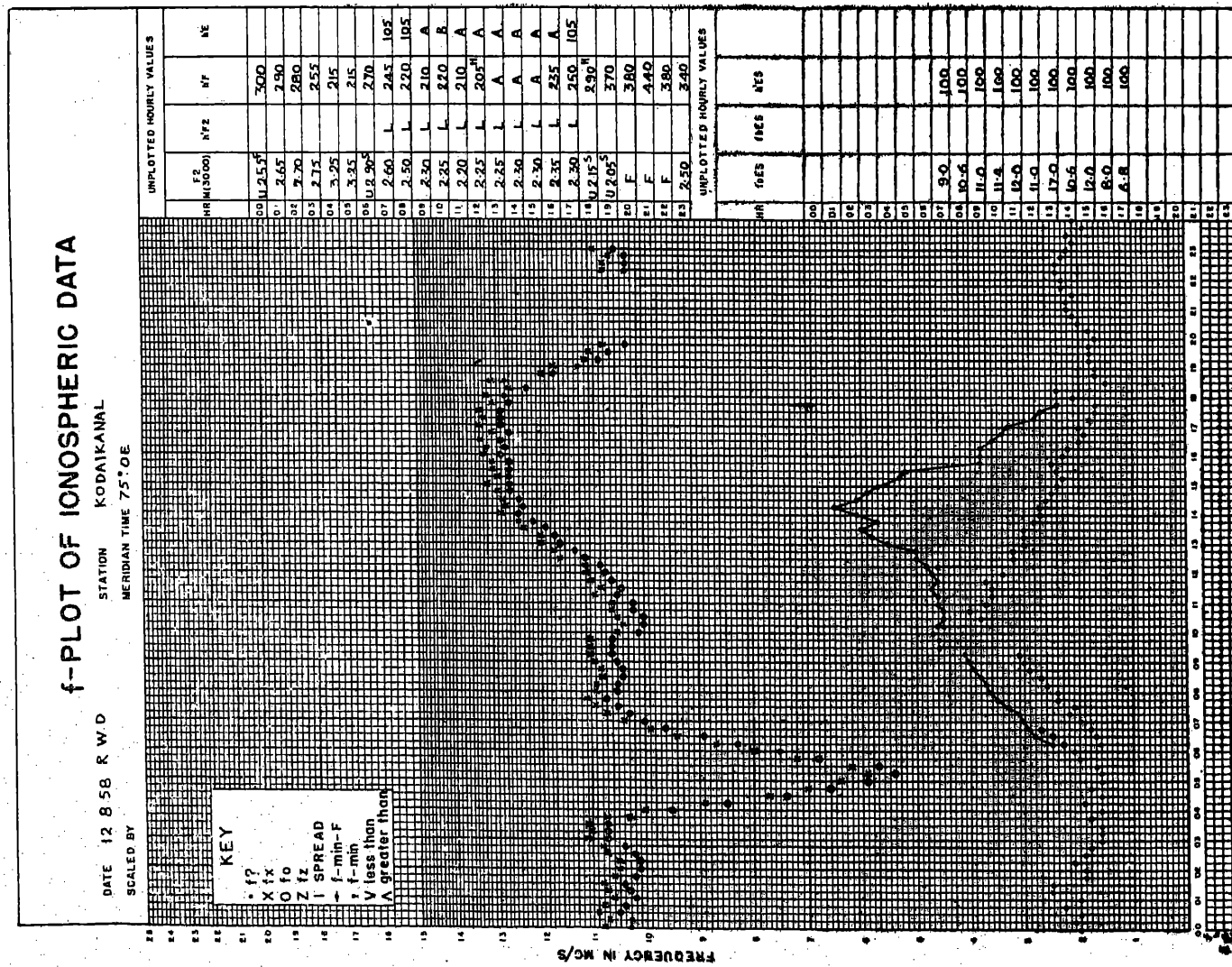


TABLE VI

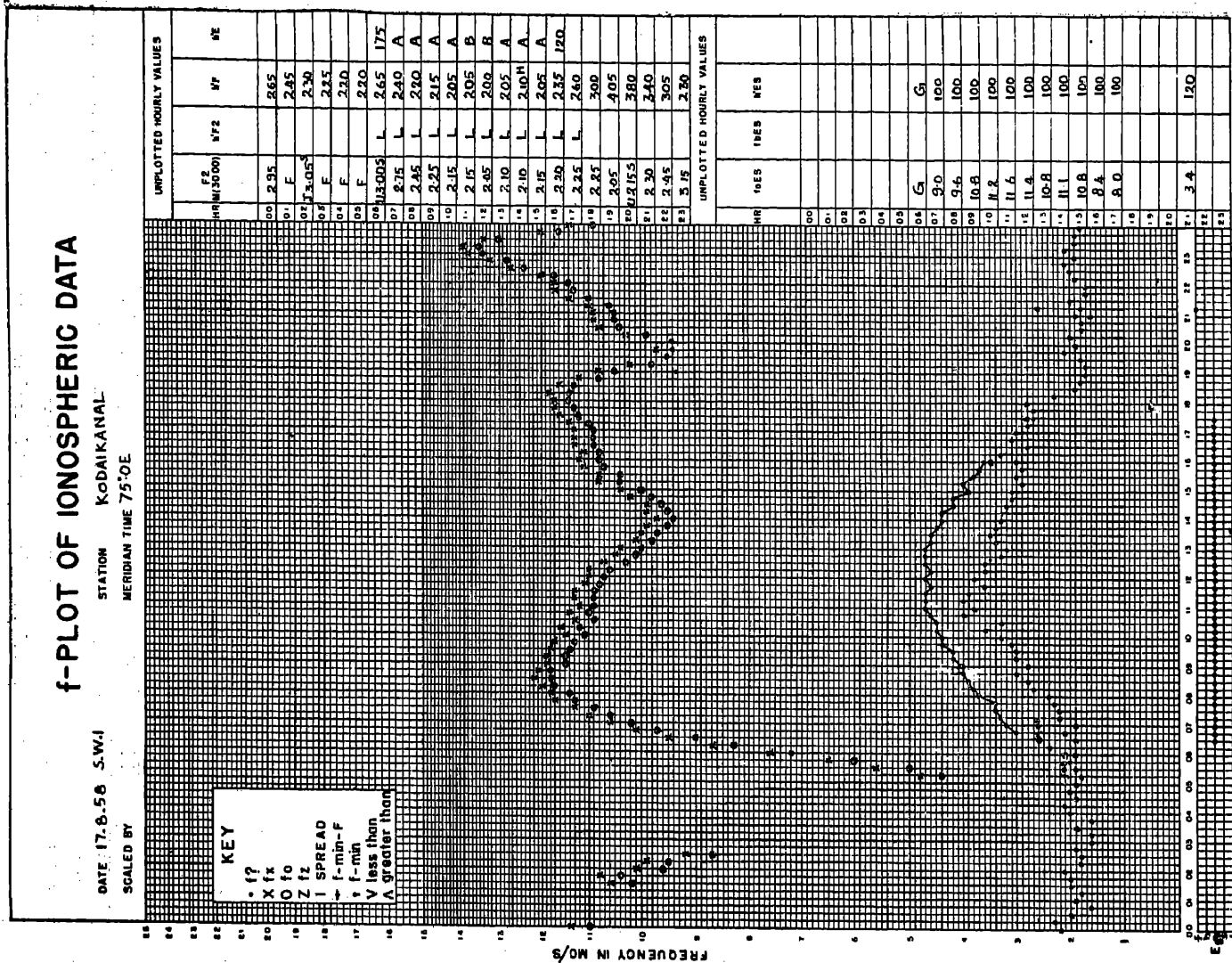
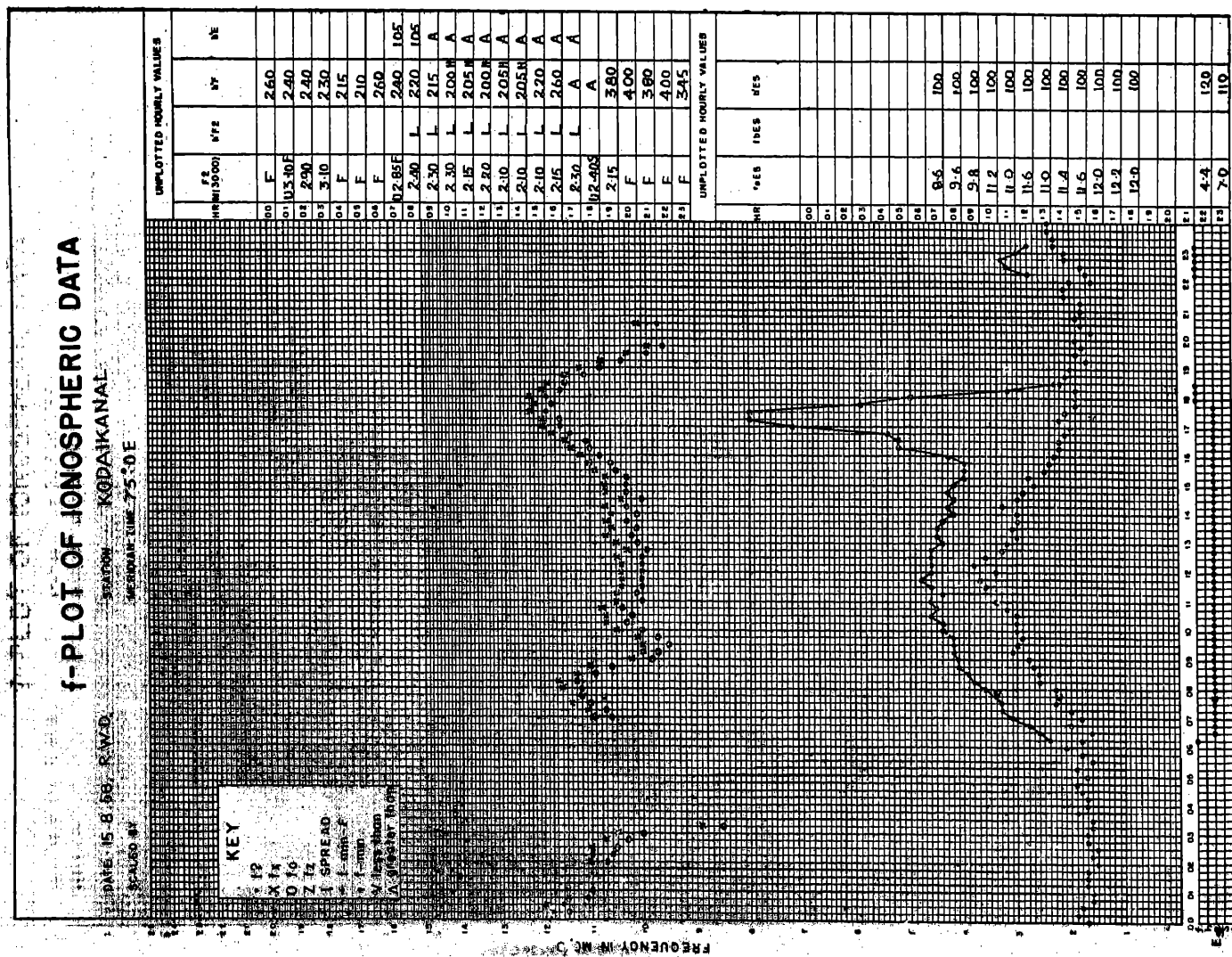
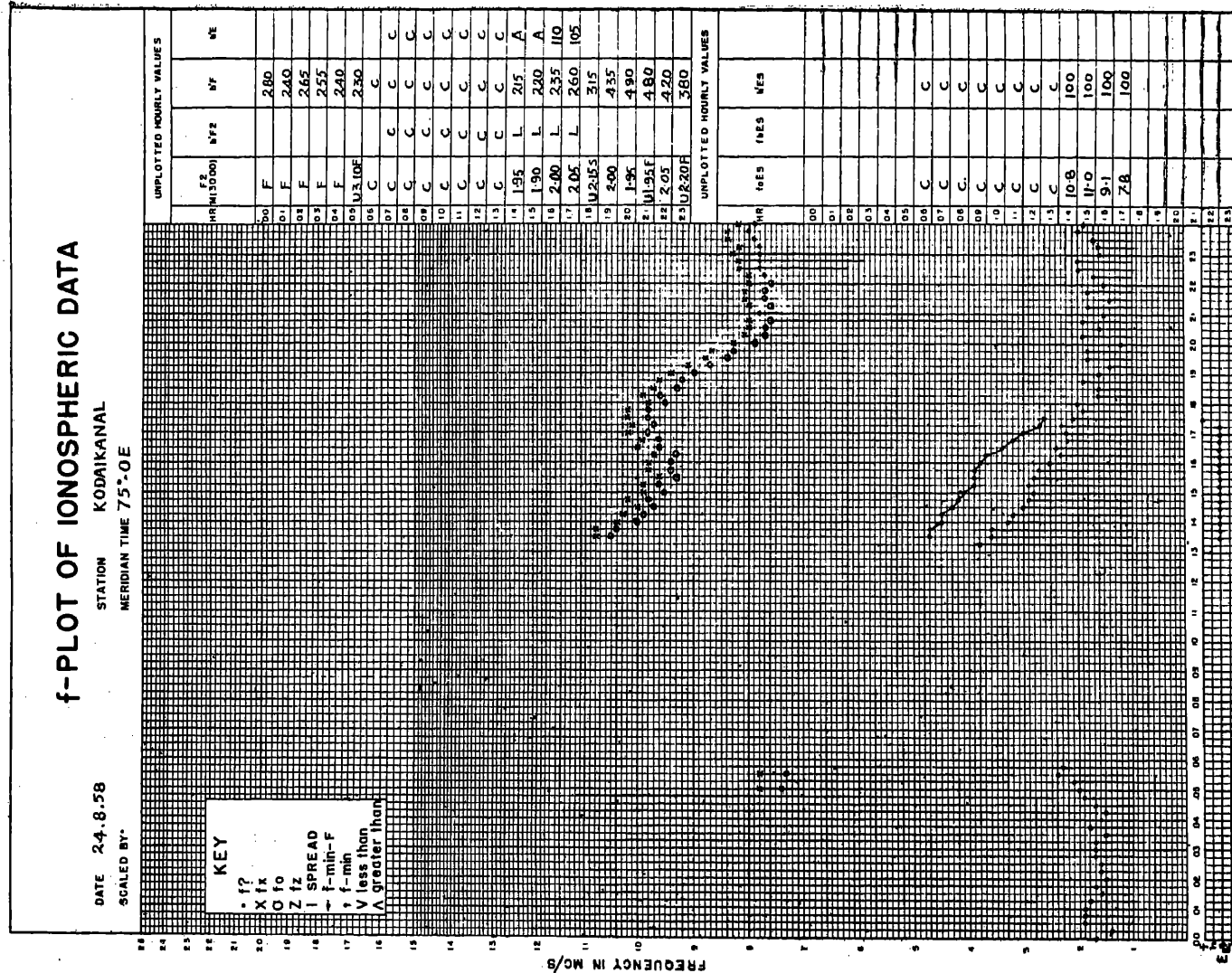
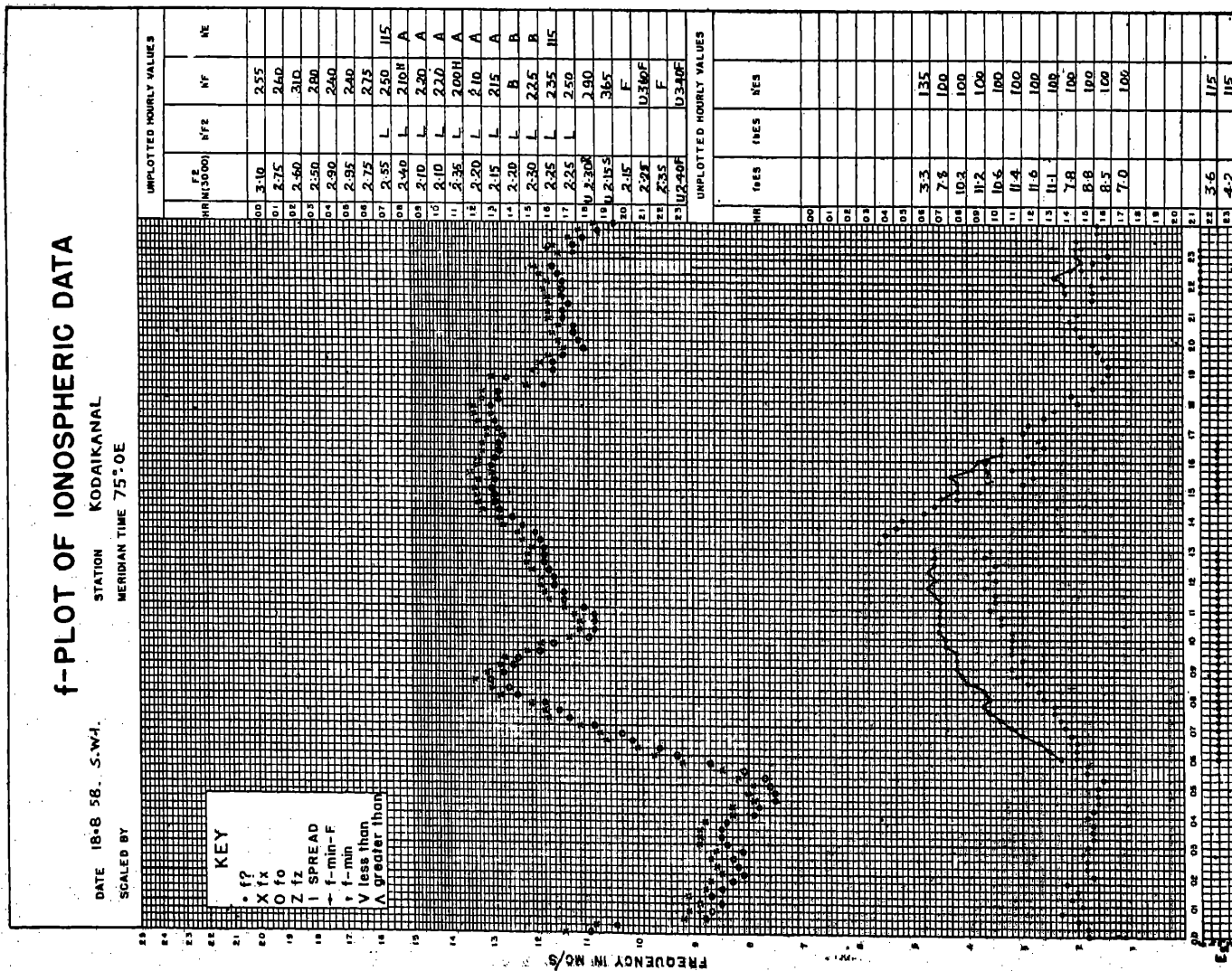
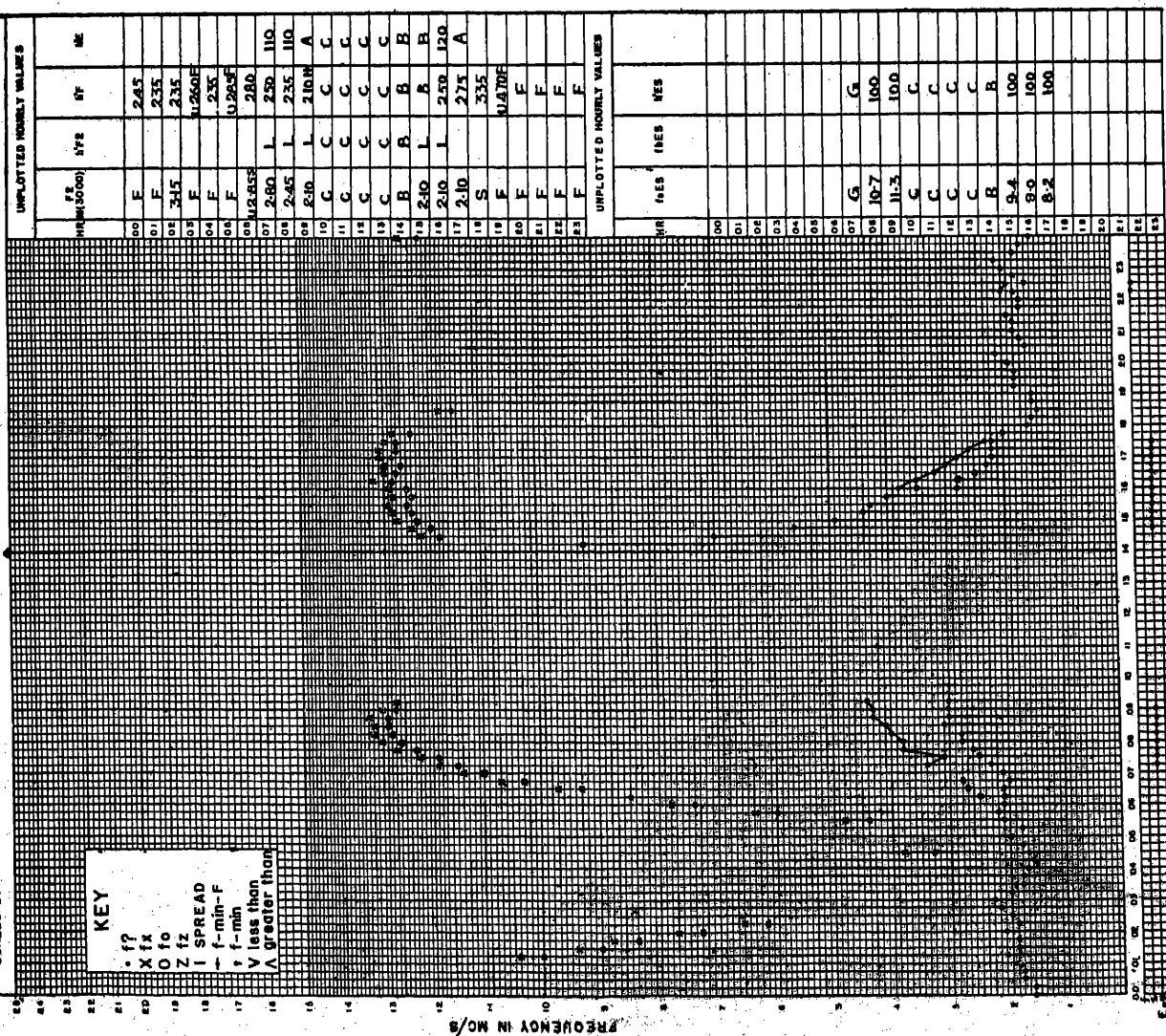


TABLE VII.



• f-PLOT OF IONOSPHERIC DATA

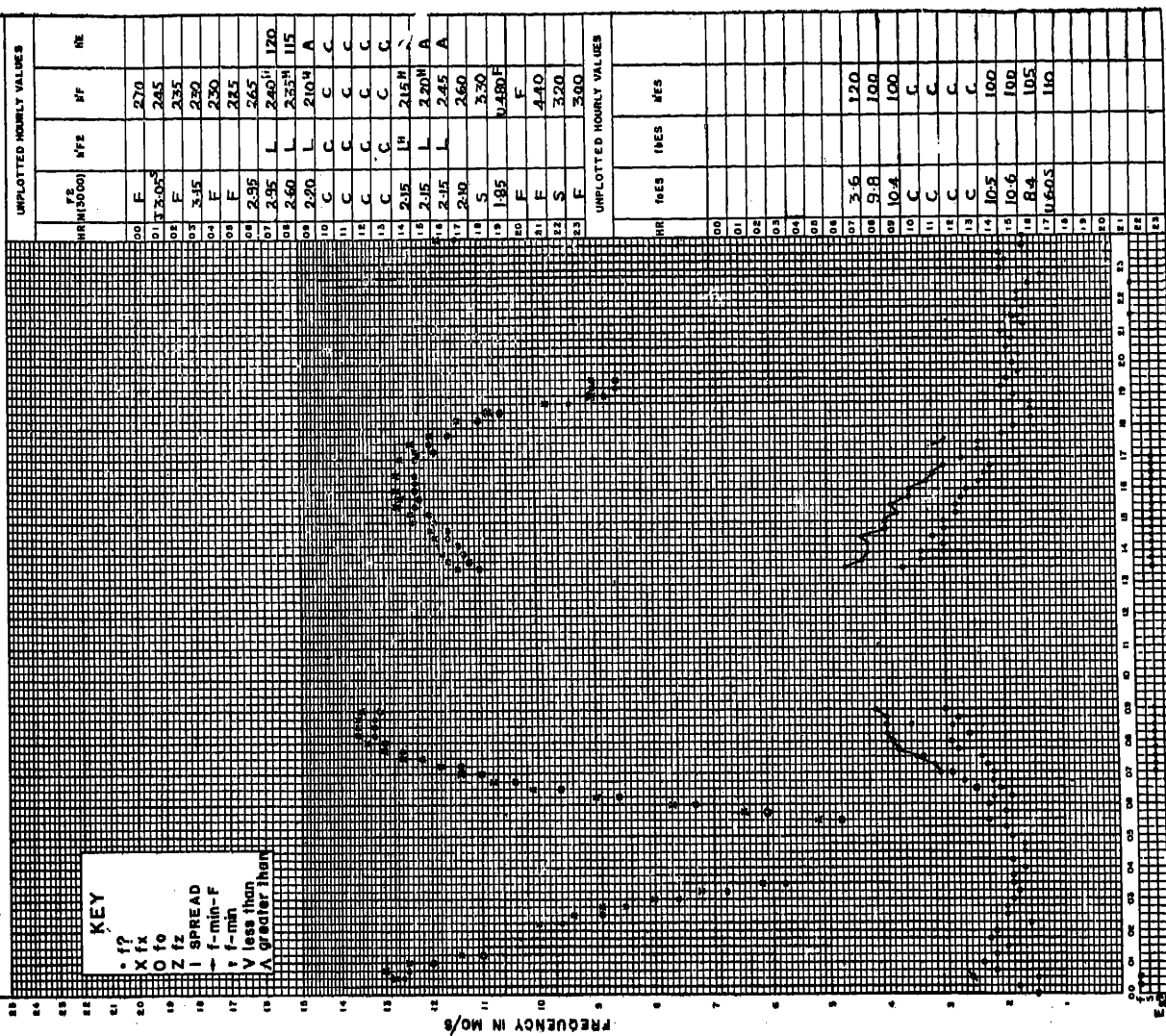
DATE 14-9-58 R.W.D. STATION KODAIKANAL
MERIDIAN TIME 75°0E
SCALED BY



TIME

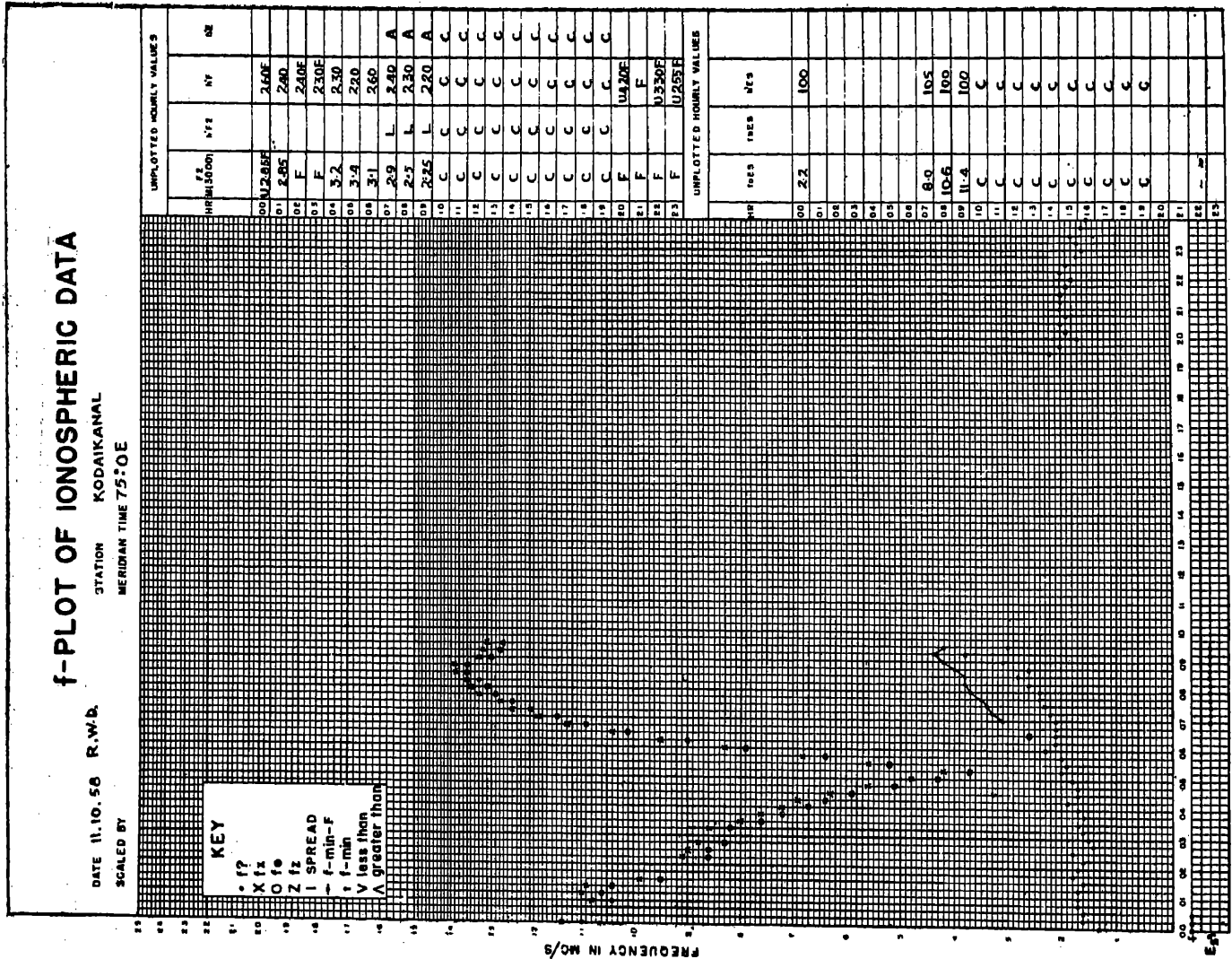
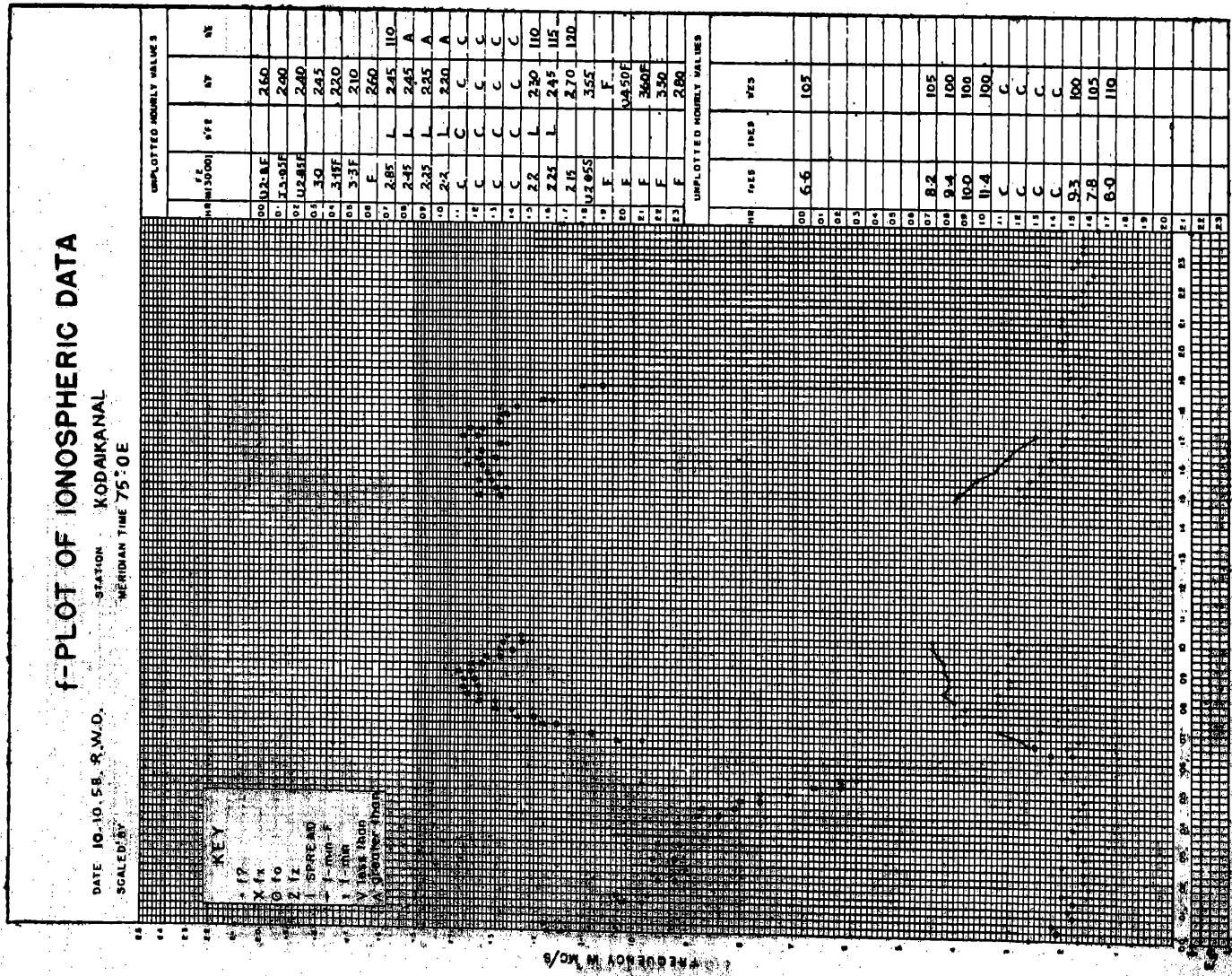
f-PLOT OF IONOSPHERIC DATA

DATE 20-9-58 R.W.D. STATION KODAIKANAL
MERIDIAN TIME 75°0E
SCALED BY



TIME

TABLE X.



DATE 12.10.58. R.W.D
STATION KODAIKANAL
MERIDIAN TIME 75°0E
SCALED BY

DATE 12.10.58. R.W.D.
SCALED BY

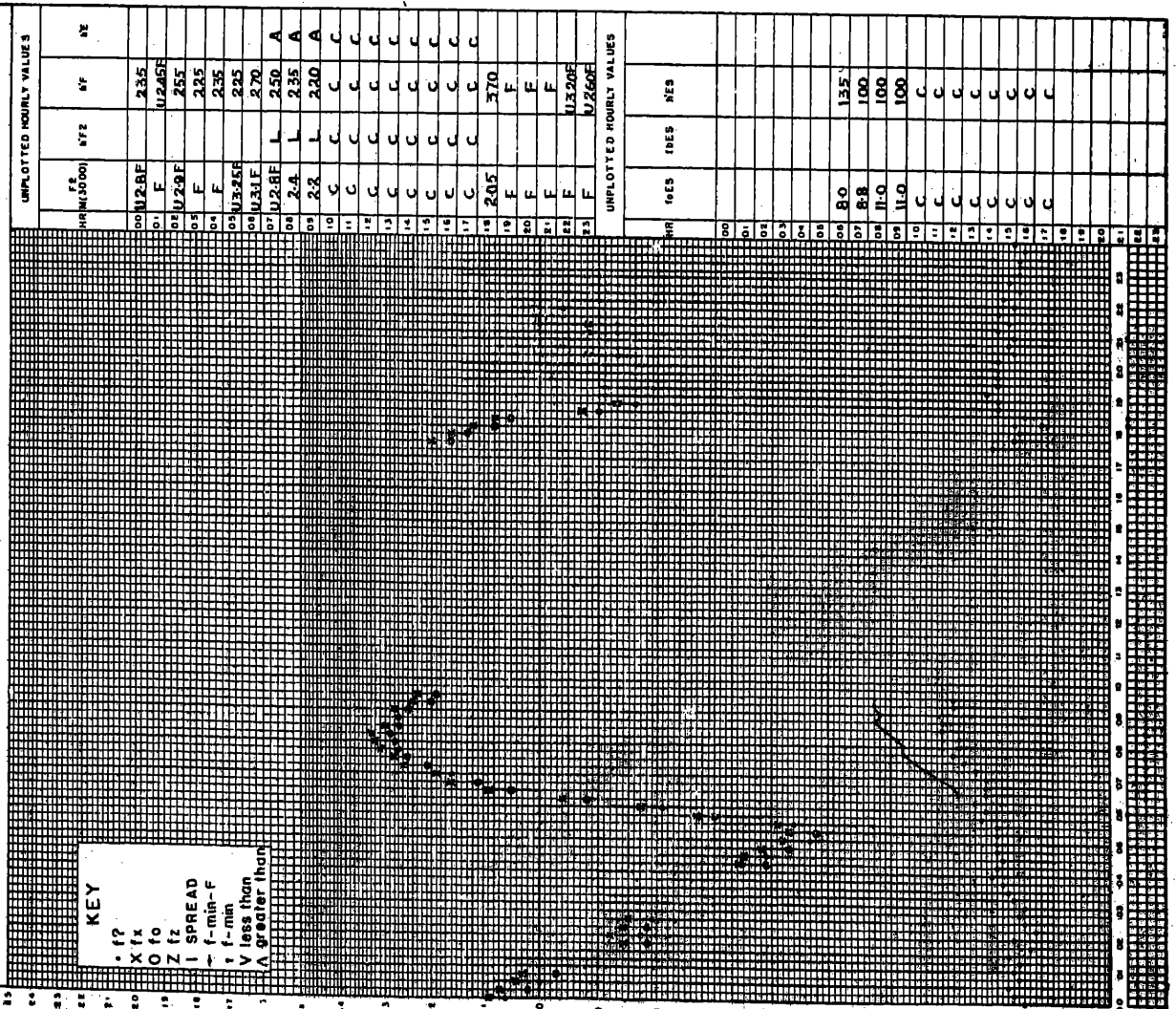
STATION KODAIKANAL
MERIDIAN TIME 75°0E

MERIDIAN TIME 75°0E

SCALED BY

KEY

f? **SPREAD**
f x f-min-F
f o f-min
f z less than
 greater than



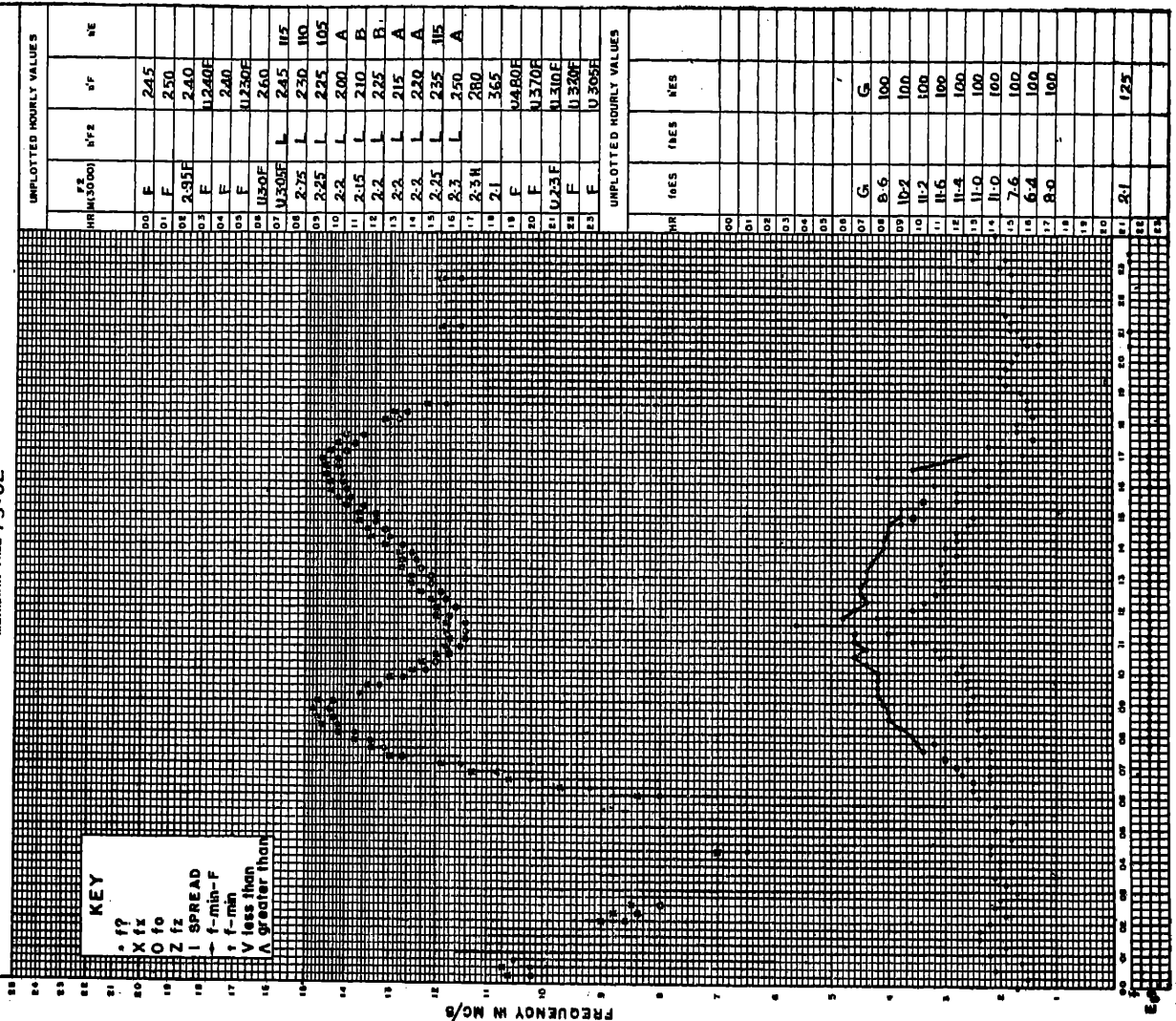
TIME

DATE 13.10.58, R.W.D.
STATION KODAIKANAL
MERIDIAN TIME 75°0E
SCALED BY

DATE 13.10.58, R.W.D.,
SCALED BY

SCALED BY

KEY



TIME

TABLE XII

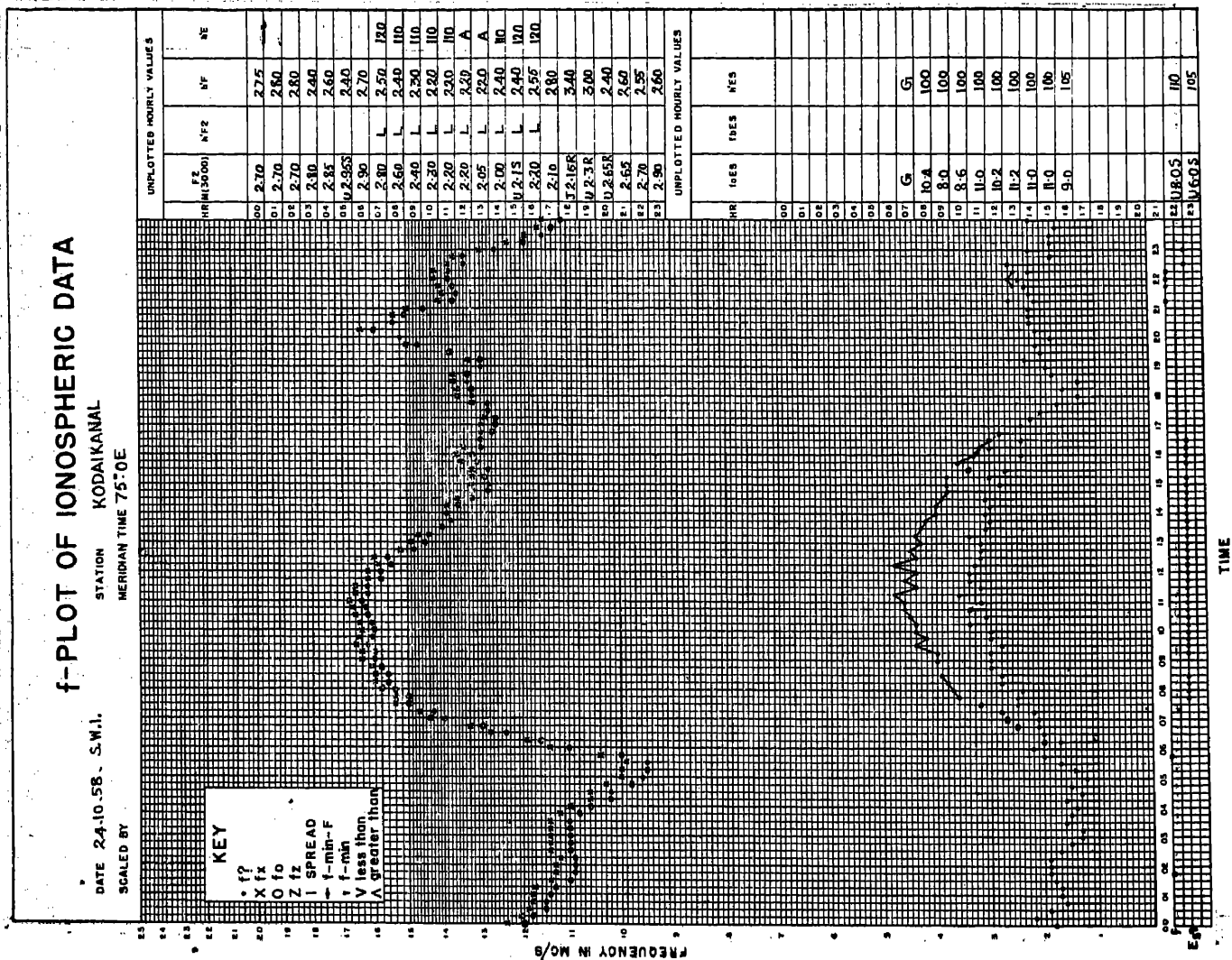
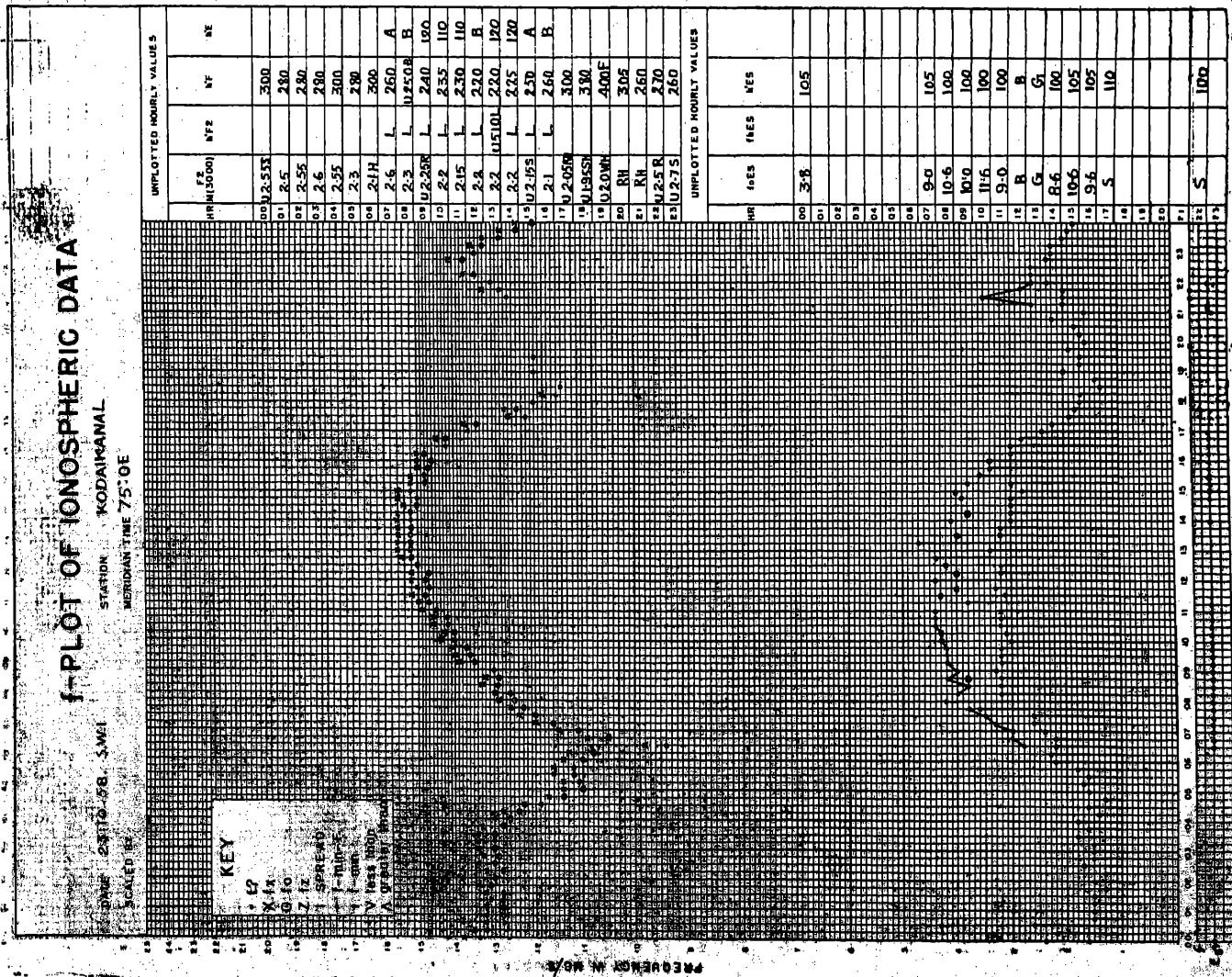


TABLE XIII

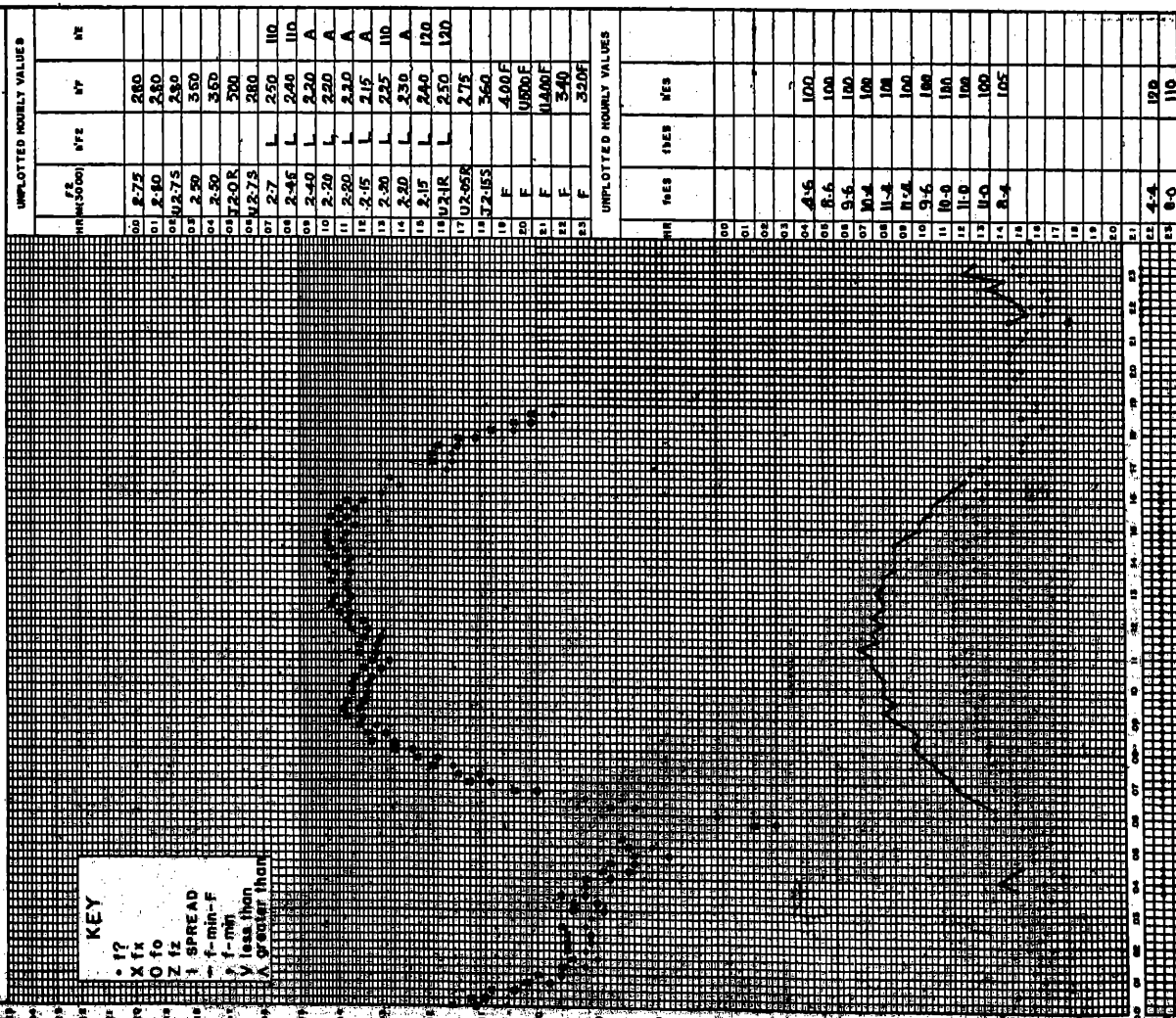
f-PLOT OF IONOSPHERIC DATA

DATE 25.10.58. S.W.J.

STATION KODAIKANAL

MERIDIAN TIME 75°0E

SCALED BY



f-PLOT OF IONOSPHERIC DATA

DATE 4.11.58 R.W.D

STATION KODAIKANAL

MERIDIAN TIME 75°0E

SCALED BY

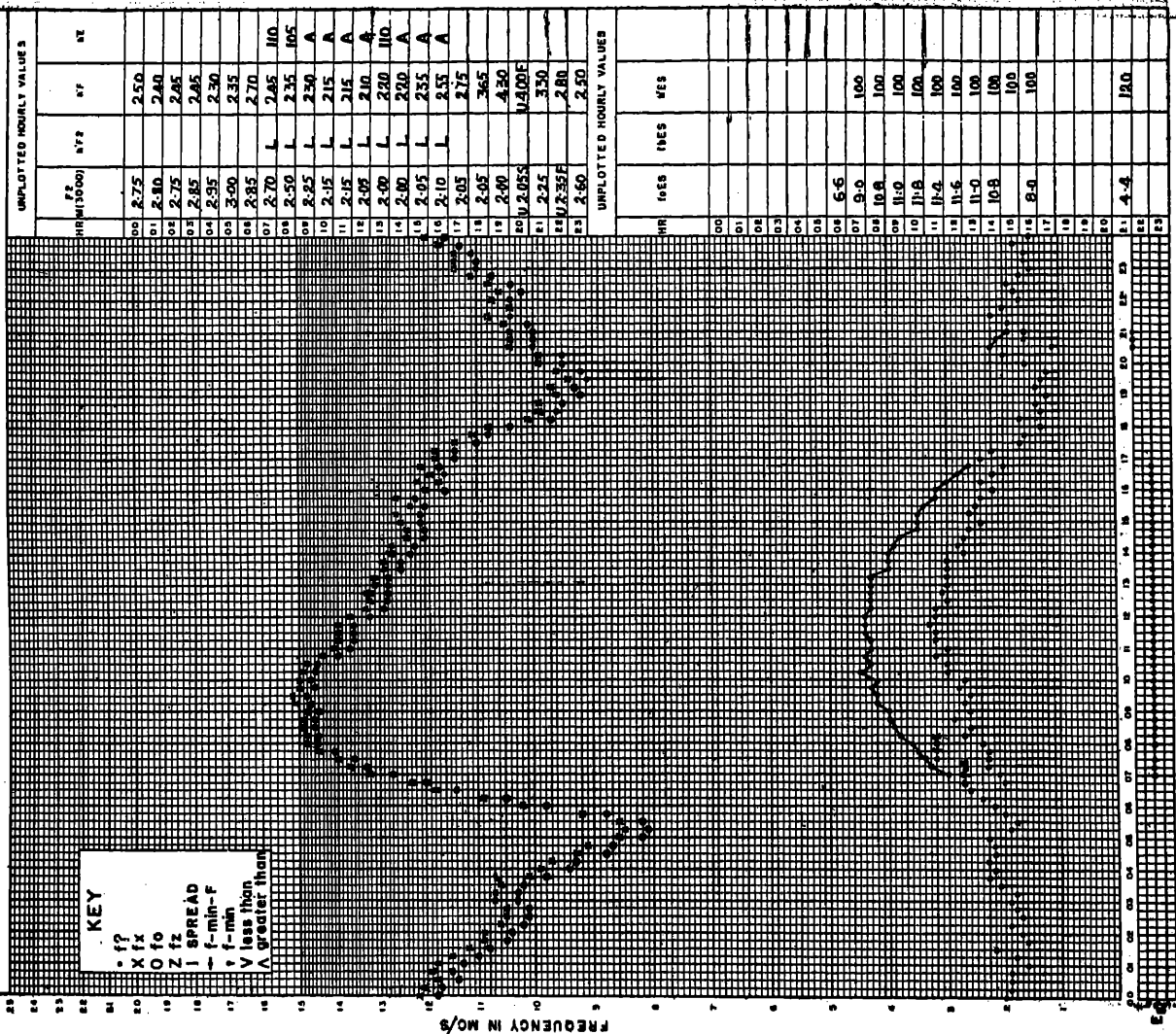
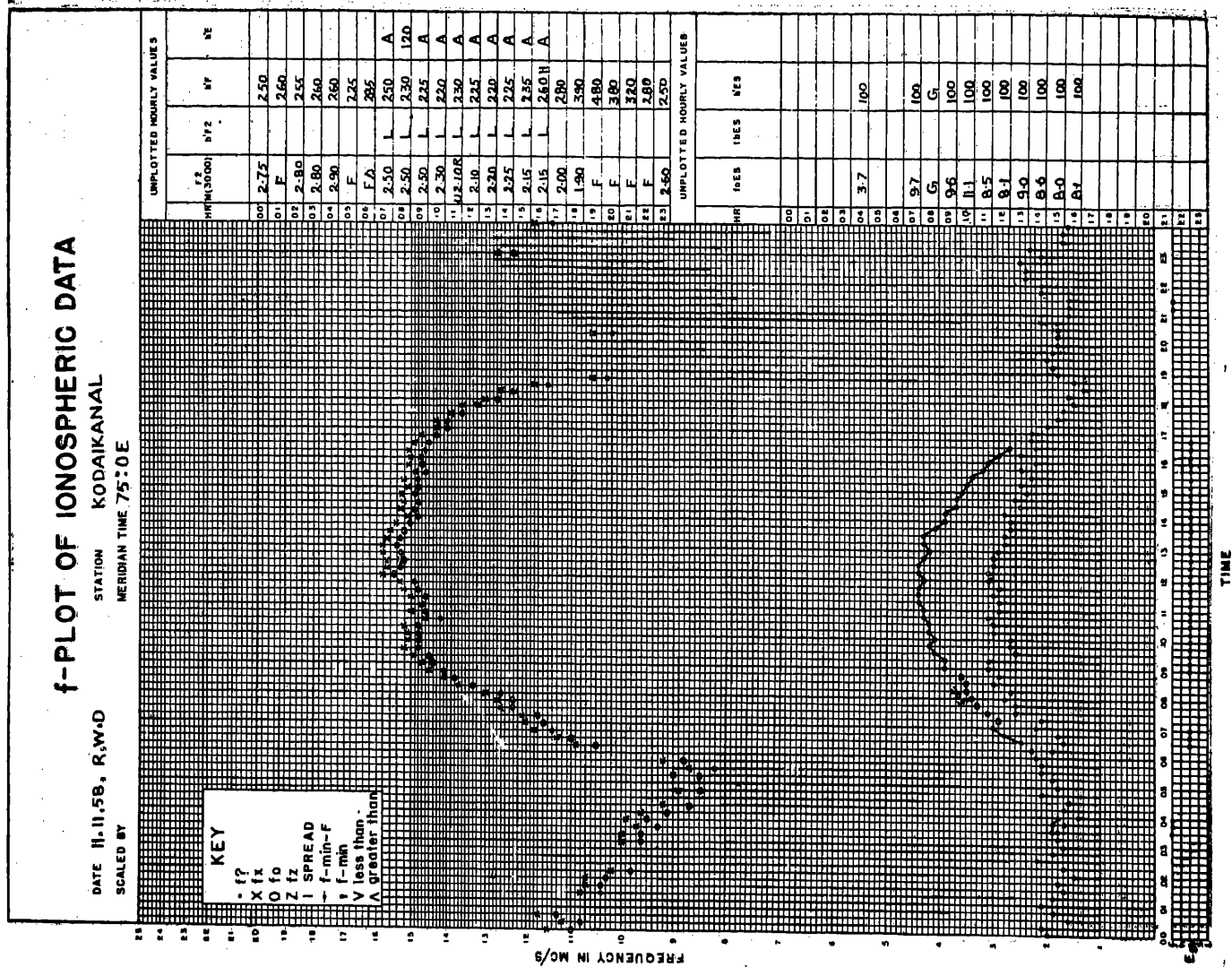
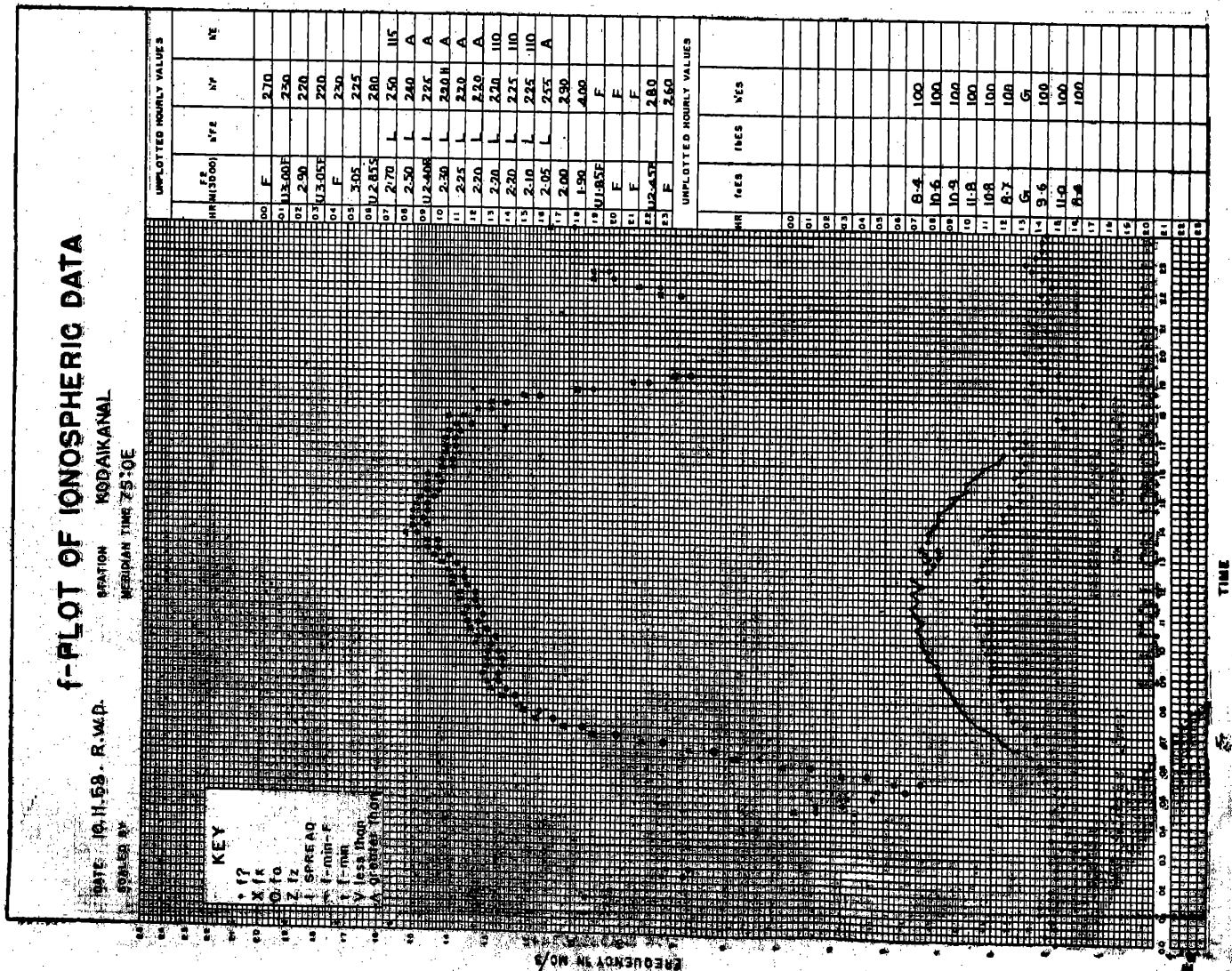
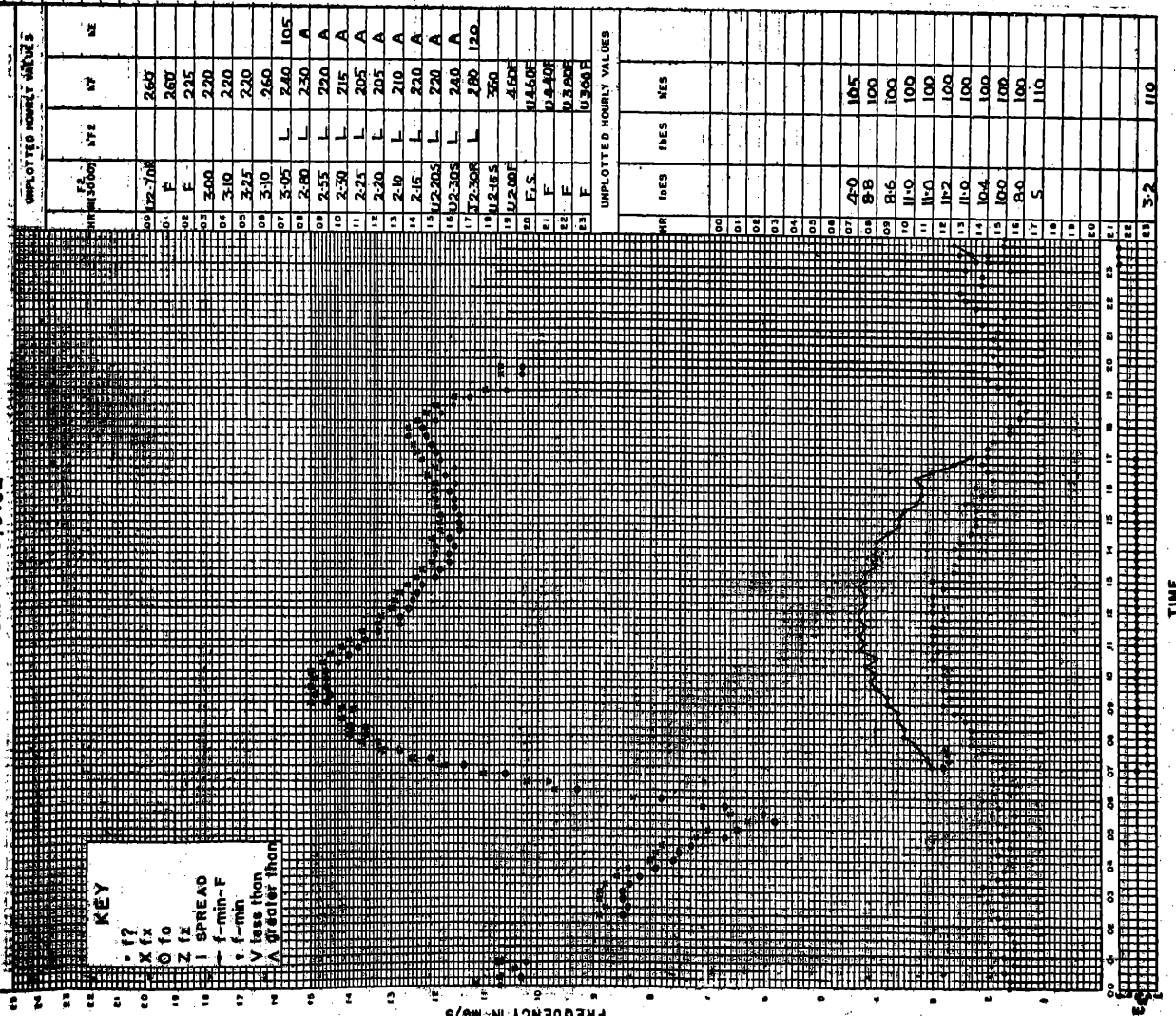


TABLE XIV



DATE 18.11.58. R.W.O.
LOCATED BY

STATION KODAIRA JAPANESE
RECEIVED TIME 7:5:06



DATE 10.12.58. R.W.D.
SIGNED BY

STATION KODIAKANAL
MERIDIAN TIME 75° 0'E

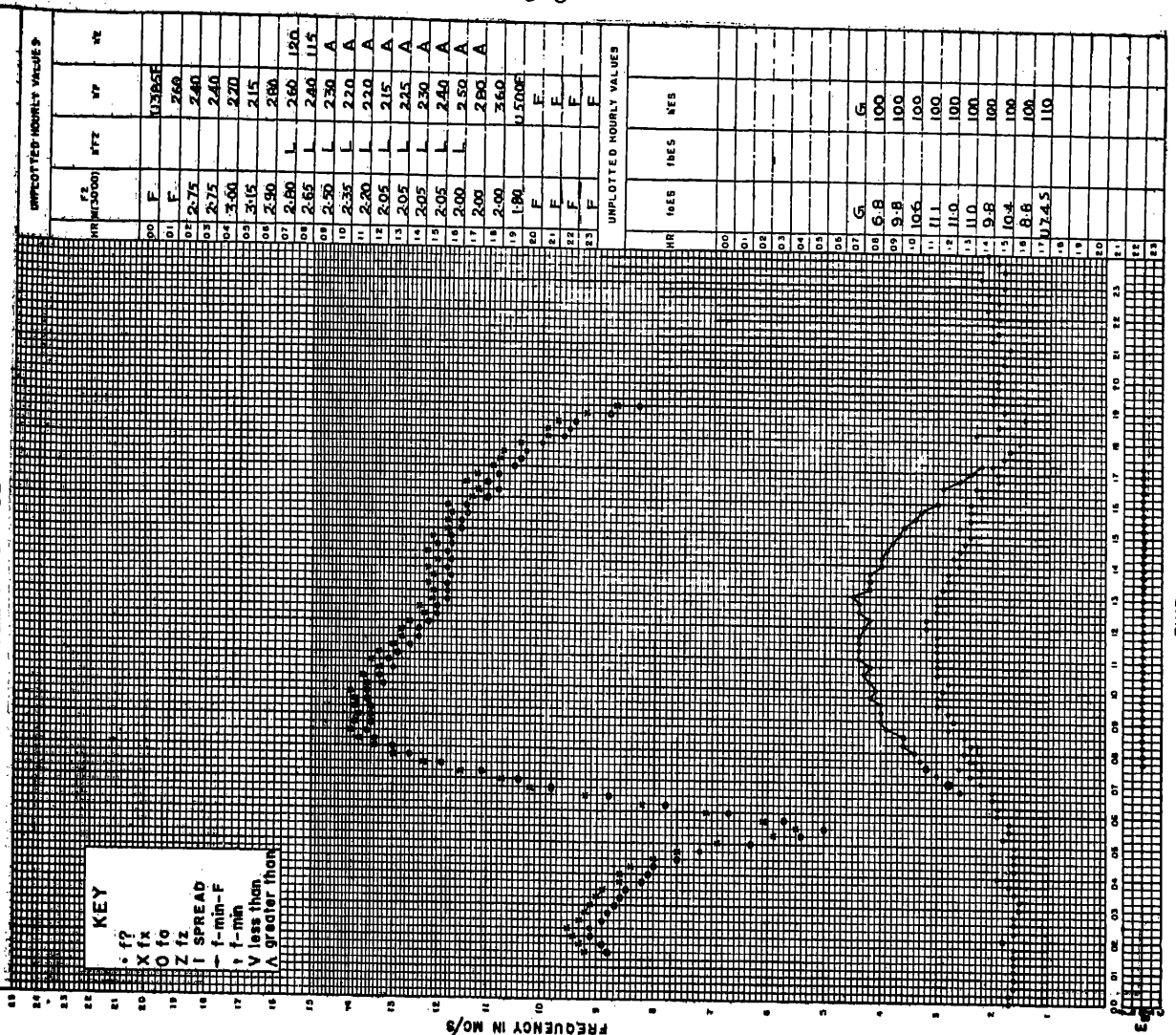


TABLE XVI

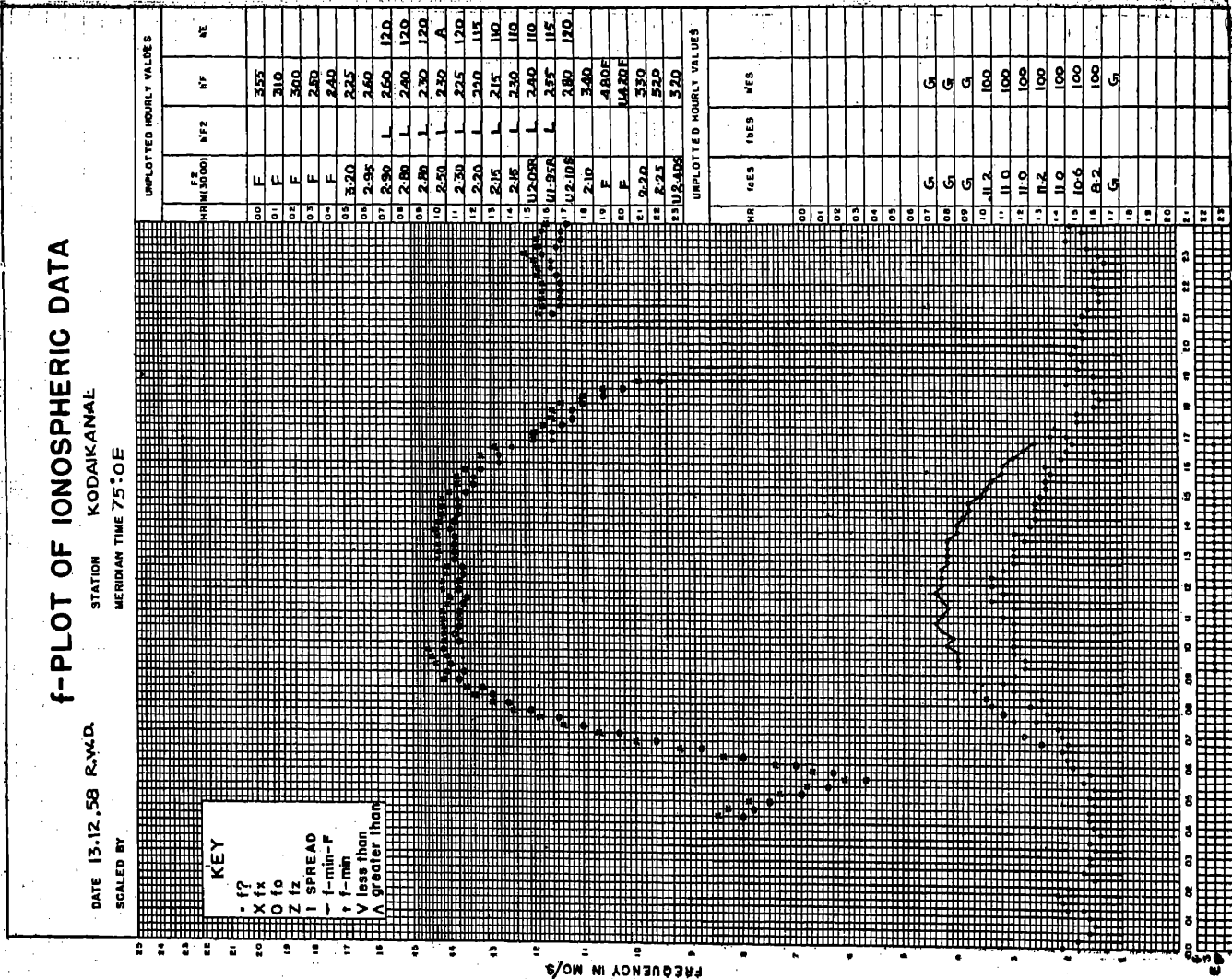
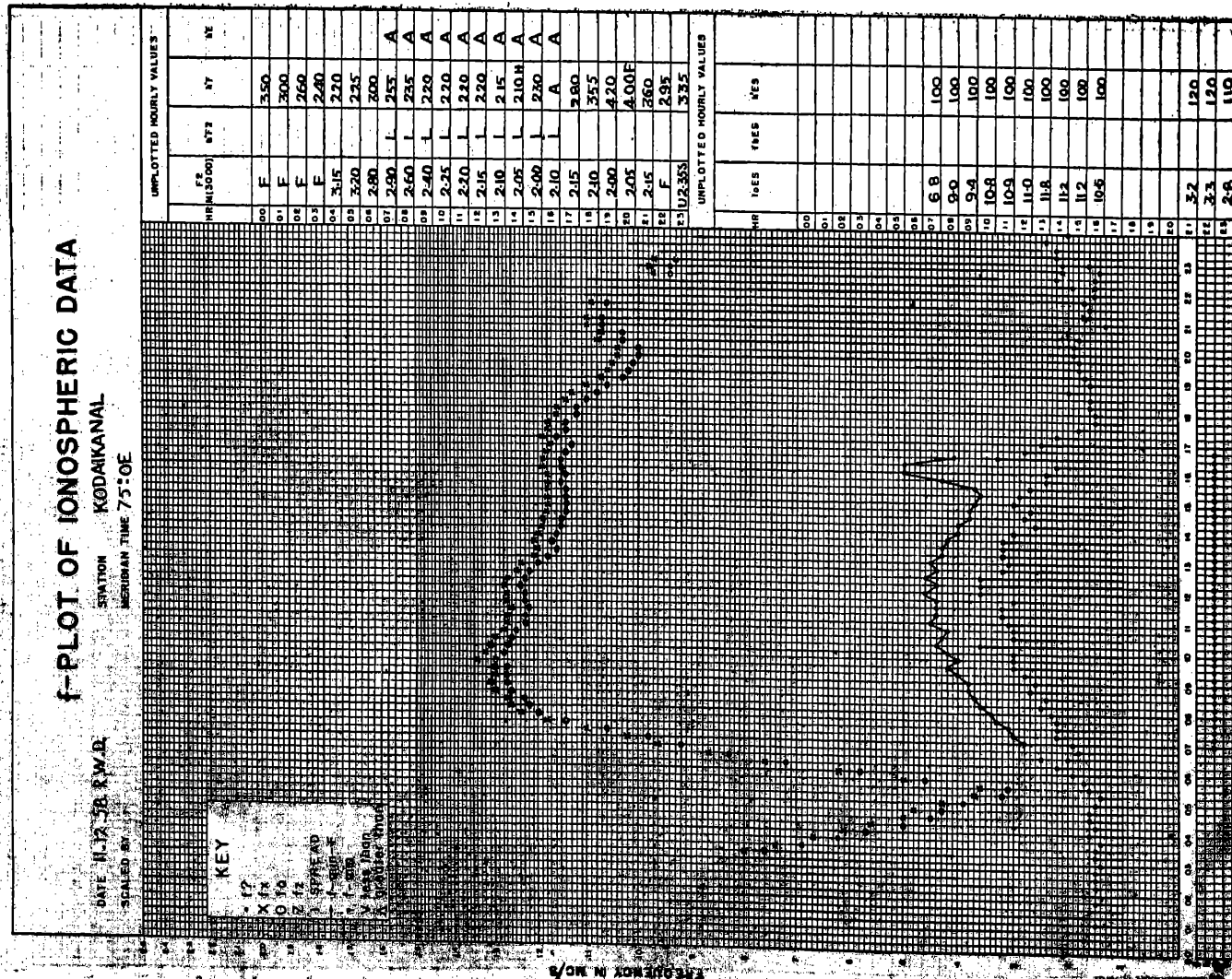


TABLE XVII

